CITY WATER, LIGHT AND POWER
CITY OF SPRINGFIELD, ILLINOIS
MISTY BUSCHER, MAYOR
DOUG BROWN, CHIEF UTILITY ENGINEER

VIA E-MAIL: dierich.andrea@epa.gov

February 13, 2025

Andrea Dierich
EPA Project Officer
US EPA, Region 5
77 W Jackson Blvd
Chicago, IL 60604

RE: Groundwater Protection Standard Report
January 1, 2022 through December 31, 2024

Dear Ms. Dierich:

Provided herein is the Groundwater Protection Standards Report (GWPS Report) in accordance with paragraph 267 of the Consent Agreement and Final Order (CAFO) effective January 14, 2025.

CWLP agreed to provide to EPA a GWPS Report covering the time period from January 1, 2022, until December 31, 2024 that identifies the recalculated background concentrations and the GWPS for all Appendix III and IV constituents, includes tables comparing the recalculated background concentrations/GWPS to the downgradient concentrations of all Appendix III and IV constituents, identifies Statistically Significant Increases (SSI) and Statistically Significant Levels (SSL) and includes available sampling well logs and analytical reports.

As part of the CAFO, CWLP agreed to amend all documents related to the Groundwater Monitoring Program and post these amended documents to our federal web site no later than February 28, 2025. The tabulated analytical data, laboratory analytical reports, statistical method and calculated backgrounds will be provided in the February 28, 2025 submittal.

40 CFR 257 Downgradient Groundwater Monitoring Network

As of February 13, 2025, the 40 CFR 257 downgradient groundwater monitoring network covered by this GWPS Report consists of monitoring wells AP-1, AP-2, AP-3, AP-6, AP-7, AP-8, AP-10, AP-14, RW-3, AW-1 and G120. Monitoring wells AW-1 and G120 were incorporated into the 40 CFR 257 groundwater monitoring program in October 2023. No analytical data under the 40 CFR 257 program is available for AW-1 and G120 prior to October 2023.

Recalculated Backgrounds and GWPS

In August 2023 as part of Injunctive Relief negotiations, EPA proposed and CWLP agreed to remove pre-2016 data from background calculations. CWLP has recalculated backgrounds for Appendix III and Appendix IV parameters using data obtained from the first quarter of 2016 through the fourth quarter of 2017. For arsenic, CWLP collected eight consecutive samples from upgradient monitoring wells AP-4 and AP-5 between July 2023 and August 2024 in order to calculate the background concentration.

For the evaluation of background groundwater monitoring data CWLP has utilized a tolerance or prediction interval procedure as outlined in 40 CFR 257.93(f)(3). The prediction limit for each Appendix III constituent was calculated using the mean, standard deviation, and the appropriate t value. The statistical analysis uses a one-tailed test to determine an upper limit of significance. The upper prediction limit is the concentration for the probability that the constituent can be measured without constituting a statistical increase above the background. Any concentration found below this limit is regarded as falling within the normal statistical population. The statistical method for determination of backgrounds as described above will be provided in Appendix G of the February 28, 2025 Groundwater Monitoring Program. CWLP has established background concentrations for the Appendix III constituents as identified in the table below:

Constituents	**Units**	**Maximum Contaminant Level (MCL), 40 CFR 141.62 and 141.66**	**Background Concentration AP-4 & AP-5**
pH	S.U.	NA	6.70-7.87
Boron, total	mg/l	NA	1.497
Calcium, total	mg/l	NA	181.6
Chloride, total	mg/l	NA	12.3
Fluoride, total	mg/l	4	0.5
Sulfate, total	mg/l	NA	55.5
Total Dissolved Solids	mg/l	NA	609.21

Using the same tolerance or prediction limit interval procedures described above, CWLP has calculated background concentrations for the Appendix IV constituents. The GWPS has been established for the Appendix IV constituents using the greater of either the calculated background concentration or the Maximum Concentration Level (MCL) published in 40 CFR 141.62 and 141.66. MCLs for Cobalt, Lead, Lithium and Molybdenum are based on 40 CFR 257.95(h)(2). The statistical method for determination of backgrounds as described above will be provided in Appendix G of the February 28, 2025 Groundwater Monitoring Program. CWLP has established GWPS for the Appendix IV constituents as identified in the table below.

Constituents	Units	Maximum Contaminant Level (MCL), 40 CFR 141.62 and 141.66	Background Concentration AP-4 & AP-5	Groundwater Protection Standards
Antimony, total	mg/l	0.006	0.001	0.006
Arsenic, total	mg/l	0.01	0.0375	0.0375
Barium, total	mg/l	2.0	0.519	2.0
Beryllium, total	mg/l	0.004	0.0025	0.0040
Cadmium, total	mg/l	0.005	0.0025	0.0050
Chromium, total	mg/l	0.100	0.0653	0.100
Cobalt, total	mg/l	0.006	0.0052	0.006
Fluoride, total	mg/l	4.0	0.500	4.0
Lead, total	mg/l	0.015	0.015	0.015
Lithium, total	mg/l	0.04	0.0124	0.04
Mercury, total	mg/l	0.002	0.0005	0.002
Molybdenum, total	mg/l	0.1	0.025	0.1
Selenium, total	mg/l	0.05	0.025	0.05
Thallium, total	mg/l	0.002	0.002	0.002
Radium 226 and 228 combined	pCi/l	5	3.79	5.0

Notes:

1. MCLs for cobalt, lead, lithium and molybdenum based on 40 CFR 257.95(h)(2)
2. The higher of the two values is used for determination of the Groundwater Protection Standard.

Comparison of Background/GWPS to Downgradient Concentrations

Analytical summary tables covering the period from January 1, 2022 through December 31, 2024 for each downgradient monitoring well in the 40 CFR 257 monitoring network are provided in Appendix A. Each table provides a comparison of the Appendix III and Appendix IV constituents to their respective backgrounds/GWPS.

The 40 CFR 257 Groundwater Monitoring Network is comprised of monitoring wells that are also part of the 35 Ill. Adm. Code 845.650 Groundwater Monitoring Network. Under the Illinois 845 program, groundwater monitoring is conducted on a quarterly basis as opposed to semi-annually as required under 40 CFR 257. The summary tables provide the quarterly monitoring results for the specified time period of this report.

CWLP evaluates groundwater quality on a quarterly basis by comparing the Appendix III analytical results to the established background concentration. If a Statistically Significant Increase (SSI) over background is observed, confirmation sampling may be conducted. If the confirmatory sample is found to also exhibit a SSI over background then the SSI is deemed to be confirmed. If the confirmatory sample does not exceed the established background the observed SSI is deemed not to be a confirmed exceedance of background.

Likewise, CWLP evaluates groundwater quality of the Appendix IV constituents on a quarterly basis by comparing the analytical result to the established GWPS. If a Statistically Significant Level (SSL)

over the GWPS is observed, confirmation sampling may be conducted. If the confirmatory sample is found to also exhibit a SSL over the GWPS then the SSL is deemed to be confirmed. If the confirmatory sample does not exceed the established GWPS the observed SSL is deemed not to be a confirmed exceedance of the GWPS.

For the Appendix III constituents presented in the tables in Appendix A, a confirmed SSI is identified by bold text and a shaded cell. Similarly, an Appendix IV confirmed SSL is identified by bold text and a shaded cell.

Laboratory Analytical Reports

Laboratory analytical reports for each sampling event are provided in Appendix B. The laboratory reports contain all available information, including available field data sheets, sample well logs and available groundwater sample stabilization records.

Within 30 days of this GWPS Report, CWLP has agreed to prepare a single notice that identifies the SSIs and SSLs in this GWPS Report and post this notice to our federal CCR web site in accordance with the terms of the CAFO.

Should you have any questions or require additional information, please contact me at 217-757-8610 ext. 1110.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

Signature: PJB
Name: PJ Becker
Title: Environmental Health and Safety Manager
Date: 2/13/2025

Attachment A

Analytical Summary Tables

CITY WATER LIGHT AND POWER

Surface Impoundment Groundwater Monitoring Program

Well	Appendix III	Units	MCL	Background	2/16/22	5/31/22	8/23/22	11/8/22	1/26/23	4/11/23	7/6/23	10/25/23	2/21/24	5/9/24	8/12/24	11/11/24
RW-3	pH	S.U.	NA	6.70-7.87	7.27	7.2	7.11	7.21	6.15	7.06	7.13	7.31	7.1	6.7	7.23	7.13
AP-1	pH	S.U.	NA	6.70-7.87	**6.57**	**6.58**	**6.65**	**6.68**	**6.6**	**6.52**	**6.51**	**6.71**	**6.51**	**6.31**	6.7	**6.54**
AP-2	pH	S.U.	NA	6.70-7.87	**6.43**	**6.43**	**6.45**	**6.52**	**6.46**	**6.44**	**6.4**	**6.57**	**6.41**	**6.21**	**6.58**	**6.41**
AP-3	pH	S.U.	NA	6.70-7.87	**6.6**	**6.58**	**6.6**	**6.65**	**6.58**	**6.64**	**6.53**	**6.69**	**6.55**	**6.36**	**6.2**	**6.48**
AP-6	pH	S.U.	NA	6.70-7.87	7.18	7.11	7.2	7.14	7.07	7.02	7.06	7.17	6.97	7.27	7.16	7.00
AP-7	pH	S.U.	NA	6.70-7.87	7.2	6.92	7.12	7.17	7.2	7.11	7.28	7.15	7.15	7.15	7.2	7.17
AP-8	pH	S.U.	NA	6.70-7.87	6.91	6.9	6.76	6.99	6.86	6.77	6.75	7.01	6.83	7.03	7.03	6.78
AP-10	pH	S.U.	NA	6.70-7.87	**6.54**	**6.69**	6.7	6.76	**6.58**	**6.68**	**6.57**	6.82	**6.65**	**6.54**	**6.53**	6.73
AP-14	pH	S.U.	NA	6.70-7.87	6.93	6.95	6.94	7.05	6.69	6.97	6.93	7.06	6.93	6.95	6.76	6.93
G120	pH	S.U.	NA	6.70-7.87								6.78	**6.47**	**6.65**	6.81	**6.55**
AW1	pH	S.U.	NA	6.70-7.87								**6.54**	**6.55**	**6.58**	**6.58**	**6.56**
RW-3	Boron	mg/l	NA	1.497	0.179	0.174	0.177	0.192	0.175	0.186	0.0595	0.117	0.116	0.154	0.122	0.137
AP-1	Boron	mg/l	NA	1.497	**22.3**	**23.1**	**22.1**	**21.4**	**23.2**	**21.2**	**22.5**	**21.7**	**23.5**	**22.7**	**22.9**	**23.6**
AP-2	Boron	mg/l	NA	1.497	**4.68**	**4.25**	**4.32**	**4.08**	**3.94**	**3.7**	**3.73**	**3.23**	**3.38**	**3.43**	**3.1**	**3.52**
AP-3	Boron	mg/l	NA	1.497	**15.8**	**14.7**	**14.8**	**14.6**	**14.5**	**14.3**	**14**	**15.2**	**14.8**	**14.5**	**14.6**	**14.9**
AP-6	Boron	mg/l	NA	1.497	0.247	0.275	0.0716	0.166	0.13	0.174	0.0753	0.214	0.171	0.238	0.25	0.248
AP-7	Boron	mg/l	NA	1.497	0.381	0.339	0.204	0.26	0.18	0.391	0.141	0.331	0.173	0.0978	0.244	0.332
AP-8	Boron	mg/l	NA	1.497	0.125	0.0877	0.0839	0.0927	0.0849	0.11	0.0932	0.0896	0.0866	0.0877	0.0855	0.084
AP-10	Boron	mg/l	NA	1.497	**3.51**	**3.58**	**3.52**	**3.35**	**3.32**	**3.76**	**3.81**	**3.6**	**3.71**	**3.92**	**3.9**	**3.95**
AP-14	Boron	mg/l	NA	1.497	**23.1**	**23.3**	**21.8**	**21.3**	**21.3**	**23**	**22.6**	**22.1**	**21.6**	**22.3**	**20**	**21**
G120	Boron	mg/l	NA	1.497								**7.15**	**7.12**	**7.6**	**7.71**	**7.5**
AW1	Boron	mg/l	NA	1.497								**8.66**	**8.24**	**9.56**	**9.19**	**8.91**
RW-3	Calcium	mg/l	NA	181.6	72.7	71.7	72.3	72.7	67.8	70.5	52.8	58.7	63.4	65.6	63.2	67.2
AP-1	Calcium	mg/l	NA	181.6	**245**	**243**	**239**	**242**	**230**	**242**	**285**	**229**	**250**	**248**	**244**	**237**
AP-2	Calcium	mg/l	NA	181.6	**265**	**236**	**241**	**248**	**217**	**210**	**244**	**204**	**210**	**194**	**206**	**222**
AP-3	Calcium	mg/l	NA	181.6	150	152	157	160	161	168	189	181	177	176	175	**185**
AP-6	Calcium	mg/l	NA	181.6	69.2	66.2	43	57.8	52.4	60.9	49	65.8	61.4	65.8	65.6	66
AP-7	Calcium	mg/l	NA	181.6	62.9	64.9	46.4	44.8	49.3	53.6	49.6	50.6	55.6	52.3	59.5	61.9
AP-8	Calcium	mg/l	NA	181.6	100	96.5	96.1	100	95.1	99.1	107	101	99.3	99.4	89.5	98.4
AP-10	Calcium	mg/l	NA	181.6	143	141	140	142	139	144	138	138	141	141	133	140
AP-14	Calcium	mg/l	NA	181.6	**225**	**215**	**217**	**236**	**209**	**233**	**235**	**278**	**263**	**245**	**237**	**253**
G120	Calcium	mg/l	NA	181.6								**257**	**265**	**260**	**240**	**263**
AW1	Calcium	mg/l	NA	181.6								**197**	**203**	**208**	**186**	**193**
RW-3	Chloride	mg/l	NA	12.3	**29**	**31**	**31**	**30**	**29**	**31**	**28**	**31**	**27**	**28**	**29**	**25.1**
AP-1	Chloride	mg/l	NA	12.3	**55**	**59**	**44**	**61**	**58**	**60**	**36**	**53**	**54**	**29**	**59**	**52.1**
AP-2	Chloride	mg/l	NA	12.3	**36**	**35**	**34**	**34**	**36**	**37**	**54**	**40**	**39**	**36**	**39**	**35.1**
AP-3	Chloride	mg/l	NA	12.3	**42**	**42**	**47**	**55**	**60**	**59**	**51**	**57**	**54**	**53**	**55.9**	**59.5**
AP-6	Chloride	mg/l	NA	12.3	**35**	**38**	**25**	**31**	**27**	**31**	**28**	**33**	**30**	**33**	**37**	**34.5**
AP-7	Chloride	mg/l	NA	12.3	**64**	**66**	**36**	**58**	**45**	**70**	**39**	**60**	**42**	**43**	**50**	**62.1**
AP-8	Chloride	mg/l	NA	12.3	**26**	**28**	**27**	**26**	**26**	**26**	**25**	**25**	**24**	**26**	**35**	**23.2**
AP-10	Chloride	mg/l	NA	12.3	**28**	**29**	**28**	**28**	**27**	**28**	**28**	**27**	**27**	**27**	**30**	**25.7**
AP-14	Chloride	mg/l	NA	12.3	**49**	**52**	**59**	**65**	**59**	**71**	**73**	**89**	**82**	**83**	**92**	**94**
G120	Chloride	mg/l	NA	12.3								**40**	**39**	**39**	**41**	**37.4**
AW1	Chloride	mg/l	NA	12.3								**40**	**40**	**41**	**41**	**37.3**

A confirmed SSI is indicated in bold text and shaded cell
An observed but not yet confirmed SSI is indicated in bold text

AW-1 and G120 were incorporated into the monitoring program in October 2023

CITY WATER LIGHT AND POWER

Surface Impoundment Groundwater Monitoring Program

Well	Appendix III	Units	MCL	Background	2/16/22	5/31/22	8/23/22	11/8/22	1/26/23	4/11/23	7/6/23	10/25/23	2/21/24	5/9/24	8/12/24	11/11/24
RW-3	Fluoride	mg/l	4	0.5	0.47	0.49	0.48	0.43	0.46	0.52	0.27	0.44	0.37	0.4	0.43	<0.5
AP-1	Fluoride	mg/l	4	0.5	0.2	0.21	0.2	0.18	0.2	0.27	0.24	0.26	0.18	0.19	0.2	<0.5
AP-2	Fluoride	mg/l	4	0.5	0.24	0.24	0.24	0.22	0.24	0.22	0.2	0.27	0.21	0.23	0.25	<0.5
AP-3	Fluoride	mg/l	4	0.5	0.21	0.24	0.23	0.21	0.22	0.22	0.21	0.25	0.17	0.19	<0.5	<0.5
AP-6	Fluoride	mg/l	4	0.5	0.49	0.55	0.31	0.4	0.38	0.51	0.26	0.5	0.37	0.48	0.56	<0.5
AP-7	Fluoride	mg/l	4	0.5	**0.55**	**0.56**	0.37	0.39	0.36	0.53	0.34	0.53	0.44	0.38	0.46	<0.5
AP-8	Fluoride	mg/l	4	0.5	0.29	0.31	0.3	0.27	0.3	0.33	0.29	0.31	0.26	0.28	0.33	<0.5
AP-10	Fluoride	mg/l	4	0.5	0.34	0.35	0.34	0.3	0.3	0.36	0.32	0.35	0.29	0.28	0.32	<0.5
AP-14	Fluoride	mg/l	4	0.5	0.28	0.3	0.29	0.26	0.25	0.28	0.27	0.29	0.3	0.24	0.28	<0.5
G120	Fluoride	mg/l	4	0.5								0.18	0.17	0.17	0.16	<0.5
AW1	Fluoride	mg/l	4	0.5								<0.1	<0.1	<0.1	0.1	<0.5
RW-3	Sulfate	mg/l	NA	55.5	10	<20	<10	<10	<10	<10	22	16	14	<10	14	<10
AP-1	Sulfate	mg/l	NA	55.5	**732**	**791**	**753**	**777**	**781**	**768**	**443**	**740**	**790**	**805**	836	**849**
AP-2	Sulfate	mg/l	NA	55.5	**583**	**532**	**545**	**643**	**485**	**462**	**795**	**380**	**393**	**411**	**417**	**440**
AP-3	Sulfate	mg/l	NA	55.5	**410**	**408**	**384**	**444**	**461**	**483**	**467**	**495**	**512**	**493**	**554**	**558**
AP-6	Sulfate	mg/l	NA	55.5	10	<10	15	13	12	11	22	13	14	<10	11	<10
AP-7	Sulfate	mg/l	NA	55.5	10	<10	15	13	16	<10	20	15	17	11	14	<10
AP-8	Sulfate	mg/l	NA	55.5	10	<10	<10	<10	<10	<10	10	<10	10	<10	11	<10
AP-10	Sulfate	mg/l	NA	55.5	**86**	**86**	**87**	**96**	**96**	**100**	**100**	**91**	**96**	**100**	**108**	**89.4**
AP-14	Sulfate	mg/l	NA	55.5	**670**	**681**	**639**	**736**	**699**	**707**	**714**	**806**	**679**	**740**	**821**	**909**
G120	Sulfate	mg/l	NA	55.5								**555**	**503**	**560**	**534**	**565**
AW1	Sulfate	mg/l	NA	55.5								**384**	**369**	**416**	**406**	**388**
RW-3	Total Dissolved Solids	mg/l	NA	609.21	408	428	428	425	435	426	290	340	335	345	344	470
AP-1	Total Dissolved Solids	mg/l	NA	609.21	**1490**	**1550**	**1550**	**1540**	**1520**	**1540**	**1190**	**1360**	**1400**	**1490**	**1530**	**1640**
AP-2	Total Dissolved Solids	mg/l	NA	609.21	**1310**	**1270**	**1360**	**1310**	**1180**	**1100**	**1600**	**1020**	**1020**	**1040**	**1110**	**1160**
AP-3	Total Dissolved Solids	mg/l	NA	609.21	**882**	**942**	**1030**	**920**	**1040**	**984**	**990**	**1080**	**935**	**1040**	**1170**	**1160**
AP-6	Total Dissolved Solids	mg/l	NA	609.21	374	458	246	348	322	380	268	322	380	390	396	445
AP-7	Total Dissolved Solids	mg/l	NA	609.21	440	480	290	348	328	444	300	352	330	340	386	470
AP-8	Total Dissolved Solids	mg/l	NA	609.21	502	552	540	505	555	544	555	430	520	590	526	530
AP-10	Total Dissolved Solids	mg/l	NA	609.21	**740**	**752**	**755**	**730**	**778**	**756**	**725**	**732**	**745**	**720**	**796**	**790**
AP-14	Total Dissolved Solids	mg/l	NA	609.21	**1240**	**1340**	**1390**	**1380**	**1280**	**1330**	**1480**	**1440**	**1510**	**1480**	**1610**	**1840**
G120	Total Dissolved Solids	mg/l	NA	609.21								**1390**	**1320**	**1280**	**1450**	**1430**
AW1	Total Dissolved Solids	mg/l	NA	609.21								**1220**	**1120**	**1220**	**1190**	**1100**

A confirmed SSI is indicated in bold text and shaded cell
An observed but not yet confirmed SSI is indicated in bold text

AW-1 and G120 were incorporated into the monitoring program in October 2023

CITY WATER LIGHT AND POWER

Surface Impoundment Groundwater Monitoring Program

Well	Appendix IV	Units	MCL	Background	GWPS	2/16/22	5/31/22	8/23/22	11/8/22	1/26/23	4/11/23	7/6/23	10/25/23	2/21/24	5/9/24	8/12/24	11/11/24
RW-3	Antimony	mg/l	0.006	0.001	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
AP-1	Antimony	mg/l	0.006	0.001	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
AP-2	Antimony	mg/l	0.006	0.001	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0021	<0.001	<0.001
AP-3	Antimony	mg/l	0.006	0.001	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
AP-6	Antimony	mg/l	0.006	0.001	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0021
AP-7	Antimony	mg/l	0.006	0.001	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0016	<0.001
AP-8	Antimony	mg/l	0.006	0.001	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
AP-10	Antimony	mg/l	0.006	0.001	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0014	<0.001	<0.001
AP-14	Antimony	mg/l	0.006	0.001	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
G120	Antimony	mg/l	0.006	0.001	0.006								<0.001	<0.001	<0.001	<0.001	<0.001
AW1	Antimony	mg/l	0.006	0.001	0.006								<0.001	<0.001	<0.001	0.0016	<0.001
RW-3	Arsenic	mg/l	0.01	0.0375	0.0375	**0.178**	**0.138**	**0.11**	**0.142**	**0.169**	**0.145**	**0.0831**	**0.74**	**0.306**	**0.188**	**0.107**	**0.214**
AP-1	Arsenic	mg/l	0.01	0.0375	0.0375	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
AP-2	Arsenic	mg/l	0.01	0.0375	0.0375	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.002	0.002	0.0027	0.002	0.0031	0.0016
AP-3	Arsenic	mg/l	0.01	0.0375	0.0375	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0109	0.0182	0.0101	0.0021	0.008	0.0182
AP-6	Arsenic	mg/l	0.01	0.0375	0.0375	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.004	0.018	0.0068	0.0121	0.0074	0.0108
AP-7	Arsenic	mg/l	0.01	0.0375	0.0375	<0.025	**0.0468**	**0.0376**	<0.025	<0.025	**0.0462**	**0.0412**	**0.075**	**0.0555**	**0.0395**	**0.0438**	**0.0947**
AP-8	Arsenic	mg/l	0.01	0.0375	0.0375	0.0319	0.0352	0.0377	0.034	0.0336	0.0348	**0.0513**	**0.0395**	**0.0426**	**0.0461**	**0.0414**	**0.0386**
AP-10	Arsenic	mg/l	0.01	0.0375	0.0375	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0013	<0.001	0.0011	<0.001	<0.001	0.0011
AP-14	Arsenic	mg/l	0.01	0.0375	0.0375	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0018	0.0036	0.0039	0.0019	0.0016	0.0022
G120	Arsenic	mg/l	0.01	0.0375	0.0375								0.0162	0.0116	0.0126	0.0104	0.0119
AW1	Arsenic	mg/l	0.01	0.0375	0.0375								**0.208**	**0.16**	**0.156**	**0.129**	**0.168**
RW-3	Barium	mg/l	2	0.519	2	0.154	0.148	0.158	0.166	0.168	0.172	0.106	0.165	0.166	0.143	0.146	0.18
AP-1	Barium	mg/l	2	0.519	2	0.277	0.309	0.246	0.285	0.236	0.329	0.271	0.262	0.292	0.3	0.269	0.269
AP-2	Barium	mg/l	2	0.519	2	0.0721	0.073	0.0751	0.0734	0.0744	0.0656	0.0719	0.0716	0.0678	0.0607	0.0751	0.0727
AP-3	Barium	mg/l	2	0.519	2	0.0802	0.0849	0.0883	0.0951	0.111	0.103	0.0993	0.113	0.0952	0.0767	0.102	0.132
AP-6	Barium	mg/l	2	0.519	2	0.119	0.141	0.066	0.135	0.0938	0.111	0.0844	0.16	0.119	0.147	0.152	0.154
AP-7	Barium	mg/l	2	0.519	2	0.125	0.13	0.119	0.13	0.111	0.162	0.106	0.158	0.118	0.0915	0.108	0.148
AP-8	Barium	mg/l	2	0.519	2	0.355	0.356	0.355	0.371	0.36	0.375	0.378	0.374	0.374	0.373	0.407	0.364
AP-10	Barium	mg/l	2	0.519	2	0.583	0.571	0.553	0.57	0.509	0.602	0.596	0.583	0.613	0.605	0.638	0.628
AP-14	Barium	mg/l	2	0.519	2	0.0411	0.0343	0.0361	0.0438	0.0413	0.0389	0.0349	0.0636	0.0422	0.0329	0.0371	0.0413
G120	Barium	mg/l	2	0.519	2								0.556	0.628	0.606	0.614	0.565
AW1	Barium	mg/l	2	0.519	2								1.96	2.02	1.57	0.602	0.446
RW-3	Beryllium	mg/l	0.004	0.0025	0.004	<0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
AP-1	Beryllium	mg/l	0.004	0.0025	0.004	<0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
AP-2	Beryllium	mg/l	0.004	0.0025	0.004	<0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
AP-3	Beryllium	mg/l	0.004	0.0025	0.004	<0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
AP-6	Beryllium	mg/l	0.004	0.0025	0.004	<0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
AP-7	Beryllium	mg/l	0.004	0.0025	0.004	<0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
AP-8	Beryllium	mg/l	0.004	0.0025	0.004	<0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
AP-10	Beryllium	mg/l	0.004	0.0025	0.004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
AP-14	Beryllium	mg/l	0.004	0.0025	0.004	<0.005	<0.0005	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
G120	Beryllium	mg/l	0.004	0.0025	0.004								<0.0005	<0.005	<0.0005	<0.0005	<0.0005
AW1	Beryllium	mg/l	0.004	0.0025	0.004								<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

A confirmed SSL is indicated in bold text and shaded cell

AW-1 and G120 were incorporated into the monitoring program in October 2023

CITY WATER LIGHT AND POWER

Surface Impoundment Groundwater Monitoring Program

Well	Appendix IV	Units	MCL	Background	GWPS	2/16/22	5/31/22	8/23/22	11/8/22	1/26/23	4/11/23	7/6/23	10/25/23	2/21/24	5/9/24	8/12/24	11/11/24
RW-3	Cadmium	mg/l	0.005	0.0025	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
AP-1	Cadmium	mg/l	0.005	0.0025	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
AP-2	Cadmium	mg/l	0.005	0.0025	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
AP-3	Cadmium	mg/l	0.005	0.0025	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
AP-6	Cadmium	mg/l	0.005	0.0025	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
AP-7	Cadmium	mg/l	0.005	0.0025	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
AP-8	Cadmium	mg/l	0.005	0.0025	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
AP-10	Cadmium	mg/l	0.005	0.0025	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
AP-14	Cadmium	mg/l	0.005	0.0025	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
G120	Cadmium	mg/l	0.005	0.0025	0.005								<0.002	<0.002	<0.002	<0.002	<0.002
AW1	Cadmium	mg/l	0.005	0.0025	0.005								<0.002	<0.002	<0.002	<0.002	<0.002
RW-3	Chromium	mg/l	0.1	0.0653	0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
AP-1	Chromium	mg/l	0.1	0.0653	0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
AP-2	Chromium	mg/l	0.1	0.0653	0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
AP-3	Chromium	mg/l	0.1	0.0653	0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
AP-6	Chromium	mg/l	0.1	0.0653	0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
AP-7	Chromium	mg/l	0.1	0.0653	0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
AP-8	Chromium	mg/l	0.1	0.0653	0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
AP-10	Chromium	mg/l	0.1	0.0653	0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
AP-14	Chromium	mg/l	0.1	0.0653	0.1	<0.005	<0.005	<0.005	<0.005	0.0058	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
G120	Chromium	mg/l	0.1	0.0653	0.1								<0.005	<0.005	<0.005	<0.005	<0.005
AW1	Chromium	mg/l	0.1	0.0653	0.1								0.0101	0.0087	0.0119	<0.005	<0.005
RW-3	Cobalt	mg/l	0.006	0.0052	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
AP-1	Cobalt	mg/l	0.006	0.0052	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
AP-2	Cobalt	mg/l	0.006	0.0052	0.006	**0.0102**	**0.0089**	**0.0115**	**0.0111**	**0.0091**	**0.0102**	**0.0085**	**0.0091**	**0.0068**	**0.0102**	**0.0073**	**0.0085**
AP-3	Cobalt	mg/l	0.006	0.0052	0.006	<0.005	<0.005	<0.005	0.0054	<0.005	0.0054	<0.005	0.0051	<0.005	**0.0065**	**0.0071**	<0.005
AP-6	Cobalt	mg/l	0.006	0.0052	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
AP-7	Cobalt	mg/l	0.006	0.0052	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
AP-8	Cobalt	mg/l	0.006	0.0052	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
AP-10	Cobalt	mg/l	0.006	0.0052	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
AP-14	Cobalt	mg/l	0.006	0.0052	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0051	<0.005	<0.005	<0.005	<0.005	<0.005
G120	Cobalt	mg/l	0.006	0.0052	0.006								<0.005	<0.005	<0.005	<0.005	<0.005
AW1	Cobalt	mg/l	0.006	0.0052	0.006								<0.005	0.0055	0.0059	<0.005	<0.005
RW-3	Fluoride	mg/l	4	0.5	4	0.47	0.49	0.48	0.43	0.46	0.52	0.27	0.44	0.37	0.4	0.43	<0.5
AP-1	Fluoride	mg/l	4	0.5	4	0.2	0.21	0.2	0.18	0.2	0.27	0.24	0.26	0.18	0.19	0.2	<0.5
AP-2	Fluoride	mg/l	4	0.5	4	0.24	0.24	0.24	0.22	0.24	0.22	0.2	0.27	0.21	0.23	0.25	<0.5
AP-3	Fluoride	mg/l	4	0.5	4	0.21	0.24	0.23	0.21	0.22	0.22	0.21	0.25	0.17	0.19	<0.5	<0.5
AP-6	Fluoride	mg/l	4	0.5	4	0.49	0.55	0.31	0.4	0.38	0.51	0.26	0.5	0.37	0.48	0.56	<0.5
AP-7	Fluoride	mg/l	4	0.5	4	0.55	0.56	0.37	0.39	0.36	0.53	0.34	0.53	0.44	0.38	0.46	<0.5
AP-8	Fluoride	mg/l	4	0.5	4	0.29	0.31	0.3	0.27	0.3	0.33	0.29	0.31	0.26	0.28	0.33	<0.5
AP-10	Fluoride	mg/l	4	0.5	4	0.34	0.35	0.34	0.3	0.3	0.36	0.32	0.35	0.29	0.28	0.32	<0.5
AP-14	Fluoride	mg/l	4	0.5	4	0.28	0.3	0.29	0.26	0.25	0.28	0.27	0.29	0.3	0.24	0.28	<0.5
G120	Fluoride	mg/l	4	0.5	4								0.18	0.17	0.17	0.16	<0.5
AW1	Fluoride	mg/l	4	0.5	4								<0.1	<0.1	<0.1	0.1	<0.5

A confirmed SSL is indicated in bold text and shaded cell

AW-1 and G120 were incorporated into the monitoring program in October 2023

CITY WATER LIGHT AND POWER

Surface Impoundment Groundwater Monitoring Program

Well	Appendix IV	Units	MCL	Background	GWPS	2/16/22	5/31/22	8/23/22	11/8/22	1/26/23	4/11/23	7/6/23	10/25/23	2/21/24	5/9/24	8/12/24	11/11/24
RW-3	Lead	mg/l	0.015	0.015	0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.0075	<0.0075
AP-1	Lead	mg/l	0.015	0.015	0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.0075	<0.0075
AP-2	Lead	mg/l	0.015	0.015	0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.0075	<0.0075
AP-3	Lead	mg/l	0.015	0.015	0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.0075	<0.0075
AP-6	Lead	mg/l	0.015	0.015	0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.0075	<0.0075
AP-7	Lead	mg/l	0.015	0.015	0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.0075	<0.0075
AP-8	Lead	mg/l	0.015	0.015	0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.0075	<0.0075
AP-10	Lead	mg/l	0.015	0.015	0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.0075	<0.0075
AP-14	Lead	mg/l	0.015	0.015	0.015	<0.015	0.0189	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.0075	<0.0075
G120	Lead	mg/l	0.015	0.015	0.015								<0.015	<0.015	<0.015	<0.0075	<0.0075
AW1	Lead	mg/l	0.015	0.015	0.015								<0.015	<0.015	<0.015	<0.0075	<0.0075
RW-3	Lithium	mg/l	0.04	0.0124	0.04	0.0066	0.0064	0.0064	<0.05	0.0179	<0.005	<0.003	0.0147	<0.005	<0.05	0.0038	0.0047
AP-1	Lithium	mg/l	0.04	0.0124	0.04	0.0098	0.0096	0.0087	<0.05	0.0566	<0.005	0.0109	0.0085	0.0099	<0.05	0.0103	0.0094
AP-2	Lithium	mg/l	0.04	0.0124	0.04	0.0057	0.0056	0.0055	<0.05	0.0476	<0.005	0.0063	0.0056	0.0059	<0.05	0.0081	0.0068
AP-3	Lithium	mg/l	0.04	0.0124	0.04	0.0053	<0.005	<0.005	<0.05	0.0501	<0.005	0.0063	0.0051	0.0062	<0.05	0.0064	0.0062
AP-6	Lithium	mg/l	0.04	0.0124	0.04	0.0071	0.0079	<0.005	<0.05	0.014	<0.005	<0.003	<0.005	<0.005	<0.05	0.0098	0.0104
AP-7	Lithium	mg/l	0.04	0.0124	0.04	0.009	0.0079	<0.005	<0.05	<0.005	0.0113	0.0047	<0.005	<0.005	<0.05	0.0063	0.0079
AP-8	Lithium	mg/l	0.04	0.0124	0.04	0.0068	0.0065	0.0065	<0.05	0.0201	<0.005	0.0074	<0.005	0.0069	<0.05	0.0075	0.0069
AP-10	Lithium	mg/l	0.04	0.0124	0.04	0.0094	0.01	0.0087	<0.05	<0.005	<0.005	0.01	<0.005	0.009	<0.05	0.0094	0.0101
AP-14	Lithium	mg/l	0.04	0.0124	0.04	0.0074	0.0066	0.0063	<0.05	0.0716	<0.005	0.0076	<0.005	0.0076	<0.05	0.0078	0.0072
G120	Lithium	mg/l	0.04	0.0124	0.04								0.0486	0.008	<0.05	0.0081	0.0086
AW1	Lithium	mg/l	0.04	0.0124	0.04								0.0739	0.0184	<0.05	0.0145	0.0113
RW-3	Mercury	mg/l	0.002	0.0005	0.002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002
AP-1	Mercury	mg/l	0.002	0.0005	0.002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002
AP-2	Mercury	mg/l	0.002	0.0005	0.002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002
AP-3	Mercury	mg/l	0.002	0.0005	0.002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002
AP-6	Mercury	mg/l	0.002	0.0005	0.002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002
AP-7	Mercury	mg/l	0.002	0.0005	0.002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002
AP-8	Mercury	mg/l	0.002	0.0005	0.002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002
AP-10	Mercury	mg/l	0.002	0.0005	0.002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002
AP-14	Mercury	mg/l	0.002	0.0005	0.002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002
G120	Mercury	mg/l	0.002	0.0005	0.002								<0.0002	<0.0002	<0.002	<0.0002	<0.0002
AW1	Mercury	mg/l	0.002	0.0005	0.002								<0.0002	<0.0002	<0.002	<0.0002	<0.0002
RW-3	Molybdenum	mg/l	0.1	0.025	0.1	0.0103	0.0106	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AP-1	Molybdenum	mg/l	0.1	0.025	0.1	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AP-2	Molybdenum	mg/l	0.1	0.025	0.1	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AP-3	Molybdenum	mg/l	0.1	0.025	0.1	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AP-6	Molybdenum	mg/l	0.1	0.025	0.1	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AP-7	Molybdenum	mg/l	0.1	0.025	0.1	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AP-8	Molybdenum	mg/l	0.1	0.025	0.1	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AP-10	Molybdenum	mg/l	0.1	0.025	0.1	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AP-14	Molybdenum	mg/l	0.1	0.025	0.1	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
G120	Molybdenum	mg/l	0.1	0.025	0.1								<0.01	<0.01	<0.01	<0.01	<0.01
AW1	Molybdenum	mg/l	0.1	0.025	0.1								<0.01	<0.01	<0.01	<0.01	<0.01

A confirmed SSL is indicated in bold text and shaded cell

AW-1 and G120 were incorporated into the monitoring program in October 2023

CITY WATER LIGHT AND POWER

Surface Impoundment Groundwater Monitoring Program

Well	Appendix IV	Units	MCL	Background	GWPS	2/16/22	5/31/22	8/23/22	11/8/22	1/26/23	4/11/23	7/6/23	10/25/23	2/21/24	5/9/24	8/12/24	11/11/24
RW-3	Radium-226+228	pCi/l	5	3.79	5	<2	<2	<2	1.95	<2	0.48	<2	1.09	<2	<2	<2	2.23
AP-1	Radium-226+228	pCi/l	5	3.79	5	2.36	<2	<2	<1.28	<2	1.4	<2	<2	<2	<2	<2	<2
AP-2	Radium-226+228	pCi/l	5	3.79	5	<2	<2	<2	2.21	<2	2.5	<2	<2	<2	<2	<2	<2
AP-3	Radium-226+228	pCi/l	5	3.79	5	<2	<2	<2	2.72	<2	0.36	<2	<2	<2	<2	<2	<2
AP-6	Radium-226+228	pCi/l	5	3.79	5	<2	2.2	<2	0.714	<2	1.29	<2	<2	<2	<2	<4	<2
AP-7	Radium-226+228	pCi/l	5	3.79	5	<2	<2	<2	0.431	<2	1.54	<2	<2	<2	<2	<4	<2
AP-8	Radium-226+228	pCi/l	5	3.79	5	<2	2.16	<2	0.505	<2	2.88	<2	<2	<2	<2	<4	2.57
AP-10	Radium-226+228	pCi/l	5	3.79	5	<2	<2	<2	<0.868	2.04	2.66	2.12	3.14	<2	<2	<4	2.61
AP-14	Radium-226+228	pCi/l	5	3.79	5	<2	2.35	<2	3.01	<2	0.45	<2	<2	<2	<2	<4	<2
G120	Radium-226+228	pCi/l	5	3.79	5								<2	<2	2.03	<2	3.52
AW1	Radium-226+228	pCi/l	5	3.79	5								<2	3.39	2.25	<2	2.17
RW-3	Selenium	mg/l	0.05	0.025	0.05	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
AP-1	Selenium	mg/l	0.05	0.025	0.05	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
AP-2	Selenium	mg/l	0.05	0.025	0.05	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
AP-3	Selenium	mg/l	0.05	0.025	0.05	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
AP-6	Selenium	mg/l	0.05	0.025	0.05	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0022
AP-7	Selenium	mg/l	0.05	0.025	0.05	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
AP-8	Selenium	mg/l	0.05	0.025	0.05	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
AP-10	Selenium	mg/l	0.05	0.025	0.05	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
AP-14	Selenium	mg/l	0.05	0.025	0.05	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
G120	Selenium	mg/l	0.05	0.025	0.05								<0.001	<0.001	<0.001	<0.001	<0.001
AW1	Selenium	mg/l	0.05	0.025	0.05								<0.001	<0.001	<0.001	<0.001	<0.001
RW-3	Thallium	mg/l	0.002	0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
AP-1	Thallium	mg/l	0.002	0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
AP-2	Thallium	mg/l	0.002	0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
AP-3	Thallium	mg/l	0.002	0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
AP-6	Thallium	mg/l	0.002	0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
AP-7	Thallium	mg/l	0.002	0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
AP-8	Thallium	mg/l	0.002	0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
AP-10	Thallium	mg/l	0.002	0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
AP-14	Thallium	mg/l	0.002	0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
G120	Thallium	mg/l	0.002	0.002	0.002								<0.002	<0.002	<0.002	<0.002	<0.002
AW1	Thallium	mg/l	0.002	0.002	0.002								<0.002	<0.002	<0.002	<0.002	<0.002

A confirmed SSL is indicated in bold text and shaded cell

AW-1 and G120 were incorporated into the monitoring program in October 2023

Attachment B

Laboratory Analytical Reports by Sampling Date

February 2022 Laboratory Analytical Report

March 16, 2022

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 22011434

Dear Eric Staley:

TEKLAB, INC received 15 samples on 2/17/2022 6:23:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 22011434
Report Date: 16-Mar-22

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	22
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 22011434

Client Project: Ash Pond Monitoring Wells **Report Date:** 16-Mar-22

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power
Work Order: 22011434

Client Project: Ash Pond Monitoring Wells
Report Date: 16-Mar-22

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 22011434
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Mar-22

Cooler Receipt Temp: 2.8 °C

An employee of Teklab, Inc. collected the sample(s). AP-10 could not be collected; the sampling point was frozen.

Radium-226 and Radium-228 analysis was performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power

Work Order: 22011434

Client Project: Ash Pond Monitoring Wells

Report Date: 16-Mar-22

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2023	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2022	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2022	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2022	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2022	Collinsville
Arkansas	ADEQ	88-0966		3/14/2023	Collinsville
Illinois	IDPH	17584		5/31/2023	Collinsville
Kentucky	UST	0073		1/31/2023	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: City Water, Light & Power **Work Order:** 22011434

Client Project: Ash Pond Monitoring Wells **Report Date:** 16-Mar-22

Lab ID: 22011434-001 **Client Sample ID:** RW-3

Matrix: GROUNDWATER **Collection Date:** 02/16/2022 13:34

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	02/16/2022 13:34	R307535
Depth to water	*	-5.00		**7.16**	ft	1	02/16/2022 13:34	R307535
Depth to water from measuring point	*	0		**9.86**	ft	1	02/16/2022 13:34	R307535
Elevation of groundwater surface	*	0		**529.64**	ft	1	02/16/2022 13:34	R307535
Measuring Point Elevation	*	0		**539.50**	ft	1	02/16/2022 13:34	R307535
Measuring Point Height Above Land Surface	*	0		**2.70**	ft	1	02/16/2022 13:34	R307535
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**5.6**	NTU	1	02/16/2022 13:34	R307535
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.4**	°F	1	02/16/2022 13:34	R307535
SW-846 9040B								
pH, Field	*	1.00		**7.27**		1	02/16/2022 13:34	R307535
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1090**	µmhos/cm @25C	1	02/16/2022 13:34	R307535
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	*	20		**408**	mg/L	1	02/17/2022 12:54	R307297
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**10**	mg/L	1	02/22/2022 19:39	R307405
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.47**	mg/L	1	02/17/2022 9:55	R307231
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**29**	mg/L	1	02/22/2022 19:39	R307406
Sample result exceeds 10 times the CCB contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**0.178**	mg/L	1	02/18/2022 15:35	187816
Barium	NELAP	0.0025		**0.154**	mg/L	1	02/18/2022 15:35	187816
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/18/2022 15:35	187816
Boron	NELAP	0.0200		**0.179**	mg/L	1	02/18/2022 15:35	187816
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/18/2022 15:35	187816
Calcium	NELAP	0.100		**72.7**	mg/L	1	02/18/2022 15:35	187816
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/18/2022 15:35	187816
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/18/2022 15:35	187816
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/18/2022 15:35	187816
Lithium	NELAP	0.0050		**0.0066**	mg/L	1	02/18/2022 15:35	187816
Molybdenum	NELAP	0.0100		**0.0103**	mg/L	1	02/18/2022 15:35	187816
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	03/05/2022 3:09	187816
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/25/2022 2:56	187816
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/25/2022 2:56	187816
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/17/2022 14:07	187817
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	03/03/2022 0:00	R308076
Radium-228	*	0		**See attached**	pci/L	1	03/03/2022 0:00	R308076

Client: City Water, Light & Power **Work Order:** 22011434

Client Project: Ash Pond Monitoring Wells **Report Date:** 16-Mar-22

Lab ID: 22011434-002 **Client Sample ID:** AP-1

Matrix: GROUNDWATER **Collection Date:** 02/15/2022 11:55

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**504.29**	ft	1	02/15/2022 11:55	R307535
Depth to water	*	-5.00		**7.05**	ft	1	02/15/2022 11:55	R307535
Depth to water from measuring point	*	0		**9.32**	ft	1	02/15/2022 11:55	R307535
Elevation of groundwater surface	*	0		**526.05**	ft	1	02/15/2022 11:55	R307535
Measuring Point Elevation	*	0		**535.37**	ft	1	02/15/2022 11:55	R307535
Measuring Point Height Above Land Surface	*	0		**2.27**	ft	1	02/15/2022 11:55	R307535
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.4**	NTU	1	02/15/2022 11:55	R307535
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.2**	°F	1	02/15/2022 11:55	R307535
SW-846 9040B								
pH, Field	*	1.00		**6.57**		1	02/15/2022 11:55	R307535
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**2580**	µmhos/cm @25C	1	02/15/2022 11:55	R307535
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	*	20		**1490**	mg/L	1	02/17/2022 12:55	R307297
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**732**	mg/L	20	02/22/2022 19:48	R307405
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.20**	mg/L	1	02/17/2022 9:56	R307231
SW-846 9251 (TOTAL)								
Chloride	NELAP	2		**55**	mg/L	2	02/22/2022 19:41	R307406
Sample result exceeds 10 times the CCB contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	02/18/2022 15:36	187816
Barium	NELAP	0.0025		**0.277**	mg/L	1	02/18/2022 15:36	187816
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/18/2022 15:36	187816
Boron	NELAP	0.0400		**22.3**	mg/L	2	02/22/2022 15:38	187816
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/18/2022 15:36	187816
Calcium	NELAP	0.100		**245**	mg/L	1	02/18/2022 15:36	187816
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/18/2022 15:36	187816
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/18/2022 15:36	187816
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/18/2022 15:36	187816
Lithium	NELAP	0.0050		**0.0098**	mg/L	1	02/18/2022 15:36	187816
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/18/2022 15:36	187816
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	03/05/2022 3:16	187816
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/25/2022 3:03	187816
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/25/2022 3:03	187816
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/17/2022 14:10	187817
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	03/03/2022 0:00	R308076
Radium-228	*	0		**See attached**	pci/L	1	03/03/2022 0:00	R308076

Client: City Water, Light & Power
Work Order: 22011434
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Mar-22
Lab ID: 22011434-003
Client Sample ID: AP-2
Matrix: GROUNDWATER
Collection Date: 02/15/2022 11:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.77**	ft	1	02/15/2022 11:31	R307535
Depth to water	*	-5.00		**3.71**	ft	1	02/15/2022 11:31	R307535
Depth to water from measuring point	*	0		**6.21**	ft	1	02/15/2022 11:31	R307535
Elevation of groundwater surface	*	0		**529.89**	ft	1	02/15/2022 11:31	R307535
Measuring Point Elevation	*	0		**536.10**	ft	1	02/15/2022 11:31	R307535
Measuring Point Height Above Land Surface	*	0		**2.50**	ft	1	02/15/2022 11:31	R307535
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**5.9**	NTU	1	02/15/2022 11:31	R307535
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.2**	°F	1	02/15/2022 11:31	R307535
SW-846 9040B								
pH, Field	*	1.00		**6.43**		1	02/15/2022 11:31	R307535
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**2320**	µmhos/cm @25C	1	02/15/2022 11:31	R307535
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	*	20		**1310**	mg/L	1	02/17/2022 12:56	R307297
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**583**	mg/L	20	02/22/2022 19:56	R307405
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.24**	mg/L	1	02/17/2022 9:58	R307231
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**36**	mg/L	1	02/22/2022 19:49	R307406
Sample result exceeds 10 times the CCB contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	02/18/2022 15:38	187816
Barium	NELAP	0.0025		**0.0721**	mg/L	1	02/18/2022 15:38	187816
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/18/2022 15:38	187816
Boron	NELAP	0.0200		**4.68**	mg/L	1	02/18/2022 15:38	187816
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/18/2022 15:38	187816
Calcium	NELAP	0.100		**265**	mg/L	1	02/18/2022 15:38	187816
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/18/2022 15:38	187816
Cobalt	NELAP	0.0050		**0.0102**	mg/L	1	02/18/2022 15:38	187816
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/18/2022 15:38	187816
Lithium	NELAP	0.0050		**0.0057**	mg/L	1	02/18/2022 15:38	187816
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/18/2022 15:38	187816
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	03/05/2022 3:23	187816
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/25/2022 3:11	187816
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/25/2022 3:11	187816
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/17/2022 14:12	187817
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	03/03/2022 0:00	R308076
Radium-228	*	0		**See attached**	pci/L	1	03/03/2022 0:00	R308076

Client: City Water, Light & Power
Work Order: 22011434
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Mar-22
Lab ID: 22011434-004
Client Sample ID: AP-3
Matrix: GROUNDWATER
Collection Date: 02/15/2022 11:08

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.45**	ft	1	02/15/2022 11:08	R307535
Depth to water	*	-5.00		**6.72**	ft	1	02/15/2022 11:08	R307535
Depth to water from measuring point	*	0		**8.42**	ft	1	02/15/2022 11:08	R307535
Elevation of groundwater surface	*	0		**526.98**	ft	1	02/15/2022 11:08	R307535
Measuring Point Elevation	*	0		**535.40**	ft	1	02/15/2022 11:08	R307535
Measuring Point Height Above Land Surface	*	0		**1.70**	ft	1	02/15/2022 11:08	R307535
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.3**	NTU	1	02/15/2022 11:08	R307535
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.2**	°F	1	02/15/2022 11:08	R307535
SW-846 9040B								
pH, Field	*	1.00		**6.60**		1	02/15/2022 11:08	R307535
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1590**	µmhos/cm @25C	1	02/15/2022 11:08	R307535
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	*	20		**882**	mg/L	1	02/17/2022 12:57	R307297
SW-846 9036 (TOTAL)								
Sulfate	NELAP	100		**410**	mg/L	10	02/22/2022 20:02	R307405
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.21**	mg/L	1	02/17/2022 10:00	R307231
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**42**	mg/L	1	02/22/2022 19:57	R307406
Sample result exceeds 10 times the CCB contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	02/18/2022 15:40	187816
Barium	NELAP	0.0025		**0.0802**	mg/L	1	02/18/2022 15:40	187816
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/18/2022 15:40	187816
Boron	NELAP	0.0200		**15.8**	mg/L	1	02/18/2022 15:40	187816
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/18/2022 15:40	187816
Calcium	NELAP	0.100		**150**	mg/L	1	02/18/2022 15:40	187816
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/18/2022 15:40	187816
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/18/2022 15:40	187816
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/18/2022 15:40	187816
Lithium	NELAP	0.0050		**0.0053**	mg/L	1	02/18/2022 15:40	187816
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/18/2022 15:40	187816
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	03/05/2022 3:29	187816
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/25/2022 3:19	187816
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/25/2022 3:19	187816
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/17/2022 14:14	187817
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	03/03/2022 0:00	R308076
Radium-228	*	0		**See attached**	pci/L	1	03/03/2022 0:00	R308076

Client: City Water, Light & Power
Work Order: 22011434
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Mar-22
Lab ID: 22011434-005
Client Sample ID: AP-4
Matrix: GROUNDWATER
Collection Date: 02/16/2022 10:05

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.79**	ft	1	02/16/2022 10:05	R307535
Depth to water	*	-5.00		**3.12**	ft	1	02/16/2022 10:05	R307535
Depth to water from measuring point	*	0		**8.42**	ft	1	02/16/2022 10:05	R307535
Elevation of groundwater surface	*	0		**550.78**	ft	1	02/16/2022 10:05	R307535
Measuring Point Elevation	*	0		**559.20**	ft	1	02/16/2022 10:05	R307535
Measuring Point Height Above Land Surface	*	0		**5.30**	ft	1	02/16/2022 10:05	R307535
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**49**	NTU	1	02/16/2022 10:05	R307535
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.0**	°F	1	02/16/2022 10:05	R307535
SW-846 9040B								
pH, Field	*	1.00		**6.92**		1	02/16/2022 10:05	R307535
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1350**	µmhos/cm @25C	1	02/16/2022 10:05	R307535
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	*	20		**496**	mg/L	1	02/17/2022 12:58	R307297
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	02/22/2022 20:05	R307405
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.14**	mg/L	1	02/17/2022 10:01	R307231
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**12**	mg/L	1	02/23/2022 13:44	R307435
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**0.0306**	mg/L	1	02/18/2022 15:54	187816
Barium	NELAP	0.0025		**0.413**	mg/L	1	02/18/2022 15:54	187816
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/18/2022 15:54	187816
Boron	NELAP	0.0200		**0.0954**	mg/L	1	02/18/2022 15:54	187816
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/18/2022 15:54	187816
Calcium	NELAP	0.100		**123**	mg/L	1	02/18/2022 15:54	187816
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/18/2022 15:54	187816
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/18/2022 15:54	187816
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/18/2022 15:54	187816
Lithium	NELAP	0.0050		**0.0092**	mg/L	1	02/18/2022 15:54	187816
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/18/2022 15:54	187816
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	03/05/2022 3:36	187816
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/25/2022 3:26	187816
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/25/2022 3:26	187816
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/17/2022 14:26	187817
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	03/03/2022 0:00	R308076
Radium-228	*	0		**See attached**	pci/L	1	03/03/2022 0:00	R308076

Client: City Water, Light & Power
Work Order: 22011434
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Mar-22
Lab ID: 22011434-006
Client Sample ID: AP-5
Matrix: GROUNDWATER
Collection Date: 02/16/2022 10:37

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**552.63**	ft	1	02/16/2022 10:37	R307535
Depth to water	*	-5.00		**10.11**	ft	1	02/16/2022 10:37	R307535
Depth to water from measuring point	*	0		**12.41**	ft	1	02/16/2022 10:37	R307535
Elevation of groundwater surface	*	0		**571.49**	ft	1	02/16/2022 10:37	R307535
Measuring Point Elevation	*	0		**583.90**	ft	1	02/16/2022 10:37	R307535
Measuring Point Height Above Land Surface	*	0		**2.30**	ft	1	02/16/2022 10:37	R307535
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.4**	NTU	1	02/16/2022 10:37	R307535
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**54.7**	°F	1	02/16/2022 10:37	R307535
SW-846 9040B								
pH, Field	*	1.00		**7.01**		1	02/16/2022 10:37	R307535
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1010**	µmhos/cm @25C	1	02/16/2022 10:37	R307535
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	*	20		**406**	mg/L	1	02/17/2022 12:58	R307297
SW-846 9036 (TOTAL)								
Sulfate	NELAP	20		**57**	mg/L	2	02/22/2022 20:35	R307405
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.33**	mg/L	1	02/17/2022 10:03	R307231
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**< 4**	mg/L	1	02/23/2022 13:55	R307435
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	02/18/2022 15:56	187816
Barium	NELAP	0.0025		**0.0505**	mg/L	1	02/18/2022 15:56	187816
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/18/2022 15:56	187816
Boron	NELAP	0.0200		**< 0.0200**	mg/L	1	02/18/2022 15:56	187816
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/18/2022 15:56	187816
Calcium	NELAP	0.100		**87.2**	mg/L	1	02/18/2022 15:56	187816
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/18/2022 15:56	187816
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/18/2022 15:56	187816
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/18/2022 15:56	187816
Lithium	NELAP	0.0050		**0.0053**	mg/L	1	02/18/2022 15:56	187816
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/18/2022 15:56	187816
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	03/05/2022 3:42	187816
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/25/2022 3:34	187816
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/25/2022 3:34	187816
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/17/2022 14:29	187817
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	03/03/2022 0:00	R308076
Radium-228	*	0		**See attached**	pci/L	1	03/03/2022 0:00	R308076

Client: City Water, Light & Power
Work Order: 22011434
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Mar-22
Lab ID: 22011434-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 02/15/2022 13:46

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.20**	ft	1	02/15/2022 13:46	R307535
Depth to water	*	-5.00		**5.36**	ft	1	02/15/2022 13:46	R307535
Depth to water from measuring point	*	0		**7.78**	ft	1	02/15/2022 13:46	R307535
Elevation of groundwater surface	*	0		**530.04**	ft	1	02/15/2022 13:46	R307535
Measuring Point Elevation	*	0		**537.82**	ft	1	02/15/2022 13:46	R307535
Measuring Point Height Above Land Surface	*	0		**2.42**	ft	1	02/15/2022 13:46	R307535
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**7.8**	NTU	1	02/15/2022 13:46	R307535
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**54.3**	°F	1	02/15/2022 13:46	R307535
SW-846 9040B								
pH, Field	*	1.00		**7.18**		1	02/15/2022 13:46	R307535
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**992**	µmhos/cm @25C	1	02/15/2022 13:46	R307535
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	*	20		**374**	mg/L	1	02/21/2022 14:43	R307467
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	02/22/2022 20:38	R307405
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.49**	mg/L	1	02/17/2022 10:05	R307231
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**35**	mg/L	1	02/22/2022 20:37	R307406
Sample result exceeds 10 times the CCB contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	02/18/2022 15:57	187816
Barium	NELAP	0.0025		**0.119**	mg/L	1	02/18/2022 15:57	187816
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/18/2022 15:57	187816
Boron	NELAP	0.0200		**0.247**	mg/L	1	02/18/2022 15:57	187816
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/18/2022 15:57	187816
Calcium	NELAP	0.100		**69.2**	mg/L	1	02/18/2022 15:57	187816
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/18/2022 15:57	187816
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/18/2022 15:57	187816
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/18/2022 15:57	187816
Lithium	NELAP	0.0050		**0.0071**	mg/L	1	02/18/2022 15:57	187816
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/18/2022 15:57	187816
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	03/05/2022 3:49	187816
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/25/2022 3:41	187816
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/25/2022 3:41	187816
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/17/2022 14:31	187817
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	03/03/2022 0:00	R308076
Radium-228	*	0		**See attached**	pci/L	1	03/03/2022 0:00	R308076

Client: City Water, Light & Power **Work Order:** 22011434

Client Project: Ash Pond Monitoring Wells **Report Date:** 16-Mar-22

Lab ID: 22011434-008 **Client Sample ID:** AP-7

Matrix: GROUNDWATER **Collection Date:** 02/15/2022 14:33

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**496.50**	ft	1	02/15/2022 14:33	R307535
Depth to water	*	-5.00		**8.23**	ft	1	02/15/2022 14:33	R307535
Depth to water from measuring point	*	0		**10.89**	ft	1	02/15/2022 14:33	R307535
Elevation of groundwater surface	*	0		**528.13**	ft	1	02/15/2022 14:33	R307535
Measuring Point Elevation	*	0		**539.02**	ft	1	02/15/2022 14:33	R307535
Measuring Point Height Above Land Surface	*	0		**2.66**	ft	1	02/15/2022 14:33	R307535
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**6.1**	NTU	1	02/15/2022 14:33	R307535
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**54.1**	°F	1	02/15/2022 14:33	R307535
SW-846 9040B								
pH, Field	*	1.00		**7.20**		1	02/15/2022 14:33	R307535
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1140**	µmhos/cm @25C	1	02/15/2022 14:33	R307535
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	*	20		**440**	mg/L	1	02/21/2022 14:46	R307467
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	02/22/2022 20:40	R307405
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.55**	mg/L	1	02/17/2022 10:07	R307231
SW-846 9251 (TOTAL)								
Chloride	NELAP	2		**64**	mg/L	2	02/22/2022 20:45	R307406
Sample result exceeds 10 times the CCB contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	02/18/2022 15:59	187816
Barium	NELAP	0.0025		**0.125**	mg/L	1	02/18/2022 15:59	187816
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/18/2022 15:59	187816
Boron	NELAP	0.0200		**0.381**	mg/L	1	02/18/2022 15:59	187816
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/18/2022 15:59	187816
Calcium	NELAP	0.100		**62.9**	mg/L	1	02/18/2022 15:59	187816
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/18/2022 15:59	187816
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/18/2022 15:59	187816
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/18/2022 15:59	187816
Lithium	NELAP	0.0050		**0.0090**	mg/L	1	02/18/2022 15:59	187816
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/18/2022 15:59	187816
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	03/05/2022 3:56	187816
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/25/2022 4:34	187816
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/25/2022 4:34	187816
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/17/2022 14:33	187817
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	03/03/2022 0:00	R308076
Radium-228	*	0		**See attached**	pci/L	1	03/03/2022 0:00	R308076

Client: City Water, Light & Power **Work Order:** 22011434

Client Project: Ash Pond Monitoring Wells **Report Date:** 16-Mar-22

Lab ID: 22011434-009 **Client Sample ID:** AP-8

Matrix: GROUNDWATER **Collection Date:** 02/15/2022 13:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.60**	ft	1	02/15/2022 13:12	R307535
Depth to water	*	-5.00		**3.51**	ft	1	02/15/2022 13:12	R307535
Depth to water from measuring point	*	0		**6.41**	ft	1	02/15/2022 13:12	R307535
Elevation of groundwater surface	*	0		**530.79**	ft	1	02/15/2022 13:12	R307535
Measuring Point Elevation	*	0		**537.20**	ft	1	02/15/2022 13:12	R307535
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	02/15/2022 13:12	R307535
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.0**	NTU	1	02/15/2022 13:12	R307535
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.1**	°F	1	02/15/2022 13:12	R307535
SW-846 9040B								
pH, Field	*	1.00		**6.91**		1	02/15/2022 13:12	R307535
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1320**	µmhos/cm @25C	1	02/15/2022 13:12	R307535
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	*	20		**502**	mg/L	1	02/21/2022 14:59	R307467
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	02/22/2022 20:48	R307405
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.29**	mg/L	1	02/17/2022 10:30	R307231
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**26**	mg/L	1	02/22/2022 20:48	R307406
Sample result exceeds 10 times the CCB contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**0.0319**	mg/L	1	02/18/2022 16:21	187816
Barium	NELAP	0.0025		**0.355**	mg/L	1	02/18/2022 16:21	187816
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/18/2022 16:21	187816
Boron	NELAP	0.0200		**0.125**	mg/L	1	02/18/2022 16:21	187816
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/18/2022 16:21	187816
Calcium	NELAP	0.100	S	**100**	mg/L	1	02/18/2022 16:21	187816
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/18/2022 16:21	187816
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/18/2022 16:21	187816
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/18/2022 16:21	187816
Lithium	NELAP	0.0050		**0.0068**	mg/L	1	02/18/2022 16:21	187816
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/18/2022 16:21	187816
Matrix spike control limits for Ca are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	03/05/2022 4:02	187816
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/25/2022 4:41	187816
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/25/2022 4:41	187816
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/17/2022 14:35	187817
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	03/03/2022 0:00	R308076

Client: City Water, Light & Power
Work Order: 22011434
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Mar-22
Lab ID: 22011434-009
Client Sample ID: AP-8
Matrix: GROUNDWATER
Collection Date: 02/15/2022 13:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See attached**	pci/L	1	03/03/2022 0:00	R308076

Client: City Water, Light & Power
Work Order: 22011434
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Mar-22
Lab ID: 22011434-015
Client Sample ID: AP-14
Matrix: GROUNDWATER
Collection Date: 02/16/2022 9:34

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**508.40**	ft	1	02/16/2022 9:34	R307535
Depth to water	*	-5.00		**-1.37**	ft	1	02/16/2022 9:34	R307535
Depth to water from measuring point	*	0		**1.43**	ft	1	02/16/2022 9:34	R307535
Elevation of groundwater surface	*	0		**538.17**	ft	1	02/16/2022 9:34	R307535
Measuring Point Elevation	*	0		**539.60**	ft	1	02/16/2022 9:34	R307535
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	02/16/2022 9:34	R307535
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**25**	NTU	1	02/16/2022 9:34	R307535
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.2**	°F	1	02/16/2022 9:34	R307535
SW-846 9040B								
pH, Field	*	1.00		**6.93**		1	02/16/2022 9:34	R307535
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**2300**	µmhos/cm @25C	1	02/16/2022 9:34	R307535
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	*	20		**1240**	mg/L	1	02/21/2022 15:37	R307467
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**670**	mg/L	20	02/23/2022 14:03	R307431
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.28**	mg/L	1	02/17/2022 10:39	R307231
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**49**	mg/L	1	02/22/2022 21:31	R307406
Sample result exceeds 10 times the CCB contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	02/18/2022 16:20	187816
Barium	NELAP	0.0025		**0.0411**	mg/L	1	02/18/2022 16:20	187816
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/18/2022 16:20	187816
Boron	NELAP	0.0400		**23.1**	mg/L	2	02/22/2022 15:40	187816
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/18/2022 16:20	187816
Calcium	NELAP	0.100		**225**	mg/L	1	02/18/2022 16:20	187816
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/18/2022 16:20	187816
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/18/2022 16:20	187816
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/18/2022 16:20	187816
Lithium	NELAP	0.0050		**0.0074**	mg/L	1	02/18/2022 16:20	187816
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/18/2022 16:20	187816
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	03/05/2022 5:16	187816
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/25/2022 6:04	187816
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/25/2022 6:04	187816
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/17/2022 14:56	187817
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	03/04/2022 0:00	R308076
Radium-228	*	0		**See attached**	pci/L	1	03/04/2022 0:00	R308076

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 22011434
Report Date: 16-Mar-22

Carrier: Joe Riley

Received By: EAH

Completed by: Mary E. Kemp
On: 17-Feb-22
Mary E. Kemp

Reviewed by: Elizabeth A. Hurley
On: 17-Feb-22
Elizabeth A. Hurley

Pages to follow: Chain of custody 2 Extra pages included 52

Shipping container/cooler in good condition?	Yes	☑	No	☐	Not Present	☐	Temp °C 2.8
Type of thermal preservation?	None	☐	Ice	☑	Blue Ice	☐	Dry Ice ☐
Chain of custody present?	Yes	☑	No	☐			
Chain of custody signed when relinquished and received?	Yes	☑	No	☐			
Chain of custody agrees with sample labels?	Yes	☑	No	☐			
Samples in proper container/bottle?	Yes	☑	No	☐			
Sample containers intact?	Yes	☑	No	☐			
Sufficient sample volume for indicated test?	Yes	☑	No	☐			
All samples received within holding time?	Yes	☑	No	☐			
Reported field parameters measured:	Field	☑	Lab	☐	NA	☐	
Container/Temp Blank temperature in compliance?	Yes	☑	No	☐			
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.							
Water – at least one vial per sample has zero headspace?	Yes	☐	No	☐	No VOA vials	☑	
Water - TOX containers have zero headspace?	Yes	☐	No	☐	No TOX containers	☑	
Water - pH acceptable upon receipt?	Yes	☐	No	☑	NA	☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes	☐	No	☐	NA	☑	

Any No responses must be detailed below or on the COC.

pH strip #78011. - PRY/MKemp - 2/17/2022 8:32:35 AM

Additional nitric acid (80456) was needed for one container each in AP-4, AP-13, and AP-14 upon arrival at the laboratory. - MKemp - 2/17/2022 8:32:57 AM

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 22011434

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 2.8 °C LTG
Preserved in: [ ] LAB [X] FIELD
FOR LAB USE ONLY 1
LAB NOTES: PHV 7801. RLY 2/17/22
Additional HNO3 (8045G) to 1 of 2 AP-4, AP-13, AP-14 MEK 2/17/22

Client Comments: AP10-Ice stuck near top; Needs to thaw
*elevations, pH, conductivity, temperature
**Sb Se Tl (ICPMS) As Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [X] No
Are these samples known to be hazardous? [ ] Yes [X] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [X] Yes [X] No Permit on file

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
J. RILEY A. BRINES

RESULTS REQUESTED
[X] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
22011434-001	RW-3	02/16/22 1334	Groundwater	1	3								✓	✓	✓	✓	✓	✓
002	AP-1	02/15/22 1155	Groundwater	1	3								✓	✓	✓	✓	✓	✓
003	AP-2	02/15/22 1139	Groundwater	1	3								✓	✓	✓	✓	✓	✓
004	AP-3	02/15/22 1108	Groundwater	1	3								✓	✓	✓	✓	✓	✓
005	AP-4	02/16/22 1005	Groundwater	1	3								✓	✓	✓	✓	✓	✓
006	AP-5	02/16/22 1037	Groundwater	1	3								✓	✓	✓	✓	✓	✓
007	AP-6	02/15/22 1346	Groundwater	1	3								✓	✓	✓	✓	✓	✓
008	AP-7	02/15/22 1433	Groundwater	1	3								✓	✓	✓	✓	✓	✓
009	AP-8	02/15/22 1317	Groundwater	1	3								✓	✓	✓	✓	✓	✓
010	AP-9	02/15/22 1507	Groundwater	1	3								✓	✓	✓	✓	✓	✓
011	AP-10	NA	Groundwater	1	3								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
	02/17/22 0623		2/17/22 0623

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

RLY 2/17/22

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 22011434

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power

Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building

City/State/Zip: Springfield IL 62712

Contact: Eric Staley Phone: (217) 757-8610

Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No

Are these samples known to be hazardous? ☐ Yes ☑ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C

Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY

LAB NOTES:

Client Comments:

*elevations, pH, conductivity, temperature

**Sb Se Tl (ICPMS) As Ba Be B Cd Ca Cr Co Pb Li Hg Mo

Quarterly monitoring

PROJECT NAME/NUMBER

Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME

RESULTS REQUESTED

☑ Standard ☐ 1-2 Day (100% Surcharge)

☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
22011434-012	AP-11	02/16/22 1251	Groundwater	1	3								✔	✔	✔	✔	✔	✔
013	AP-12	02/16/22 1257	Groundwater	1	3								✔	✔	✔	✔	✔	✔
014	AP-13	02/16/22 1134	Groundwater	1	3								✔	✔	✔	✔	✔	✔
015	AP-14	02/16/22 0934	Groundwater	1	3								✔	✔	✔	✔	✔	✔
			Groundwater										✔	✔	✔	✔	✔	✔
			Groundwater										✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
	02/17/22 0623	Elizabeth A Hurley	2/17/22 0623

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

Well ID								Final	Units
RW3	DTW	9.86	14.98	16.05	17.05			9.86	ft
	DTB								ft
	MP Elev								ft
	Time	1313	1328	1331	1334			1334	
	Temp		13.1	13	13			13	C
	D.O.		0.49	0.74	0.72			0.72	Mg/l
	Cond		1087	1090	1094			1094	uS/cm
	pH		7.28	7.28	7.27			7.27	
	Orp		-136.2	-138	-140.2			-140.2	mV
	Turbidity		9.99	6.96	5.63			5.63	NTU
	Drawdn		5.12	1.07	1			1	ft
	Volume		0.65	0.78	0.91			0.91	Gallon

CLEAR Field Filtered
NO COLOR
NO ODOR

Bladder Pump

Well ID						Final	Units
AP1	DTW	9.32	9.32	9.32	9.32	9.32	ft
	DTB						ft
	MP Elev						ft
	Time	1140	1149	1152	1155	1155	
	Temp		14	14	14	14	C
	D.O.		0.33	0.26	0.22	0.22	Mg/l
	Cond		2578	2581	2583	2583	uS/cm
	pH		6.6	6.58	6.57	6.57	
	Orp		-76	-87.9	-94.2	-94.2	mV
	Turbidity		13.74	5.92	3.43	3.43	NTU
	Drawdn		0	0	0	0	ft
	Volume		0.39	0.52	0.65	0.65	Gallon

CLEAR
NO COLOR
NO ODOR

Bladder Pump

Well ID						Final	Units
AP2	DTW	6.21	6.85	6.85	6.85	6.85	ft
	DTB						ft
	MP Elev						ft
	Time	1116	1125	1128	1131	1131	
	Temp		12.8	12.9	12.9	12.9	C
	D.O.		0.26	0.21	0.18	0.18	Mg/l
	Cond		2241	2281	2319	2319	uS/cm
	pH		6.45	6.45	6.43	6.43	
	Orp		-5.6	-11.1	-13.5	-13.5	mV
	Turbidity		6.78	3.55	5.92	5.92	NTU
	Drawdn		0.64	0	0	0	ft
	Volume		0.39	0.52	0.65	0.65	Gallon

CLEAR
NO COLOR
NO ODOR

Bladder Pump

Well ID						Final	Units
AP3	DTW	8.42	8.42	8.42	8.42	8.42	ft
	DTB						ft
	MP Elev						ft
	Time	1044	1102	1105	1108	1108	
	Temp		12.8	12.4	12.9	12.9	C
	D.O.		0.43	0.46	0.41	0.41	Mg/l
	Cond		1595	1597	1594	1594	uS/cm
	pH		6.62	6.62	6.6	6.6	
	Orp		-53.9	-58.4	-61.5	-61.5	mV
	Turbidity		13.76	13.98	8.29	8.29	NTU
	Drawdn		0	0	0	0	ft
	Volume		0.78	0.91	1.04	1.04	Gallon

CLEAR
NO COLOR
NO ODOR

Bladder Pump

Well ID							Final	Units
AP4	DTW	8.42	8.42	8.42	8.42	8.42	8.42	ft
	DTB							ft
	MP Elev							ft
	Time	941	956	959	1002	1005	1005	
	Temp		13.8	13.8	13.9	13.9	13.9	C
	D.O.		0.44	0.38	0.32	0.29	0.29	Mg/l
	Cond		1348	1349	1348	1348	1348	uS/cm
	pH		6.9	6.91	6.91	6.92	6.92	
	Orp		-111.2	-117.8	-123.8	-127.5	-127.5	mV
	Turbidity		40.18	44.94	42.38	49.06	49.06	NTU
	Drawdn		0	0	0	0	0	ft
	Volume		0.65	0.78	0.91	1.04	1.04	Gallon

SLIGHT CLOUDY
NO COLOR
NO ODOR

Bladder Pump

Well ID						Final	Units
AP5	DTW	12.41	14.51	14.51	14.51	12.41	ft
	DTB						ft
	MP Elev						ft
	Time	1025	1031	1034	1037	1037	
	Temp		12.5	12.7	12.6	12.6	C
	D.O.		3.81	3.26	3.15	3.15	Mg/l
	Cond		999	1009	1010	1010	uS/cm
	pH		7.08	7.02	7.01	7.01	
	Orp		-20.4	-13	-5.9	-5.9	mV
	Turbidity		0.92	1.61	3.39	3.39	NTU
	Drawdn		2.1	0	0	0	ft
	Volume		0.26	0.39	0.52	0.52	Gallon

CLEAR
NO COLOR
NO ODOR

Well ID								Final	Units
AP6	DTW	7.78	13.09	13.35	13.74	14.35	14.35	14.35	ft
	DTB								ft
	MP Elev								ft
	Time	1328	1334	1337	1340	1343	1346	1346	
	Temp		12.3	12.3	12	12.1	12.4	12.4	C
	D.O.		5.84	5.71	5.45	4.65	4.77	4.77	Mg/l
	Cond		990	992	990	994	992	992	uS/cm
	pH		7.32	7.27	7.23	7.17	7.18	7.18	
	Orp		-57	-44.9	-37.6	-31.6	-27.9	-27.9	mV
	Turbidity		4.12	4.14	5.81	14.68	7.8	7.8	NTU
	Drawdn		5.31	0.26	0.39	0.61	0	0	ft
	Volume		0.26	0.39	0.52	0.65	0.78	0.78	Gallon

CLEAR
NO COLOR
NO ODOR

Bladder Pump

Well ID						Final	Units
AP7	DTW	10.89	14.32	15.35	16.2	16.2	ft
	DTB						ft
	MP Elev						ft
	Time	1421	1427	1430	1433	1433	
	Temp		12.1	12.2	12.3	12.3	C
	D.O.		0.5	0.38	0.31	0.31	Mg/l
	Cond		1131	1134	1136	1136	uS/cm
	pH		7.23	7.21	7.2	7.2	
	Orp		-53.8	-72.1	-84	-84	mV
	Turbidity		8.11	7.23	6.13	6.13	NTU
	Drawdn		3.43	1.03	0.85	0.85	ft
	Volume		0.26	0.39	0.52	0.52	Gallon

CLEAR
NO COLOR
NO ODOR

Sub Pump

Well ID						Final	Units
AP8	DTW	6.41	9.89	9.89	9.89	9.89	ft
	DTB						ft
	MP Elev						ft
	Time	1254	1306	1309	1312	1312	
	Temp		13.4	13.4	13.4	13.4	C
	D.O.		0.19	0.16	0.14	0.14	Mg/l
	Cond		1321	1321	1322	1322	uS/cm
	pH		6.92	6.91	6.91	6.91	
	Orp		-108.2	-115.4	-119.9	-119.9	mV
	Turbidity		10.87	12.9	8.01	8.01	NTU
	Drawdn		3.48	0	0	0	ft
	Volume		0.52	0.65	0.78	0.78	Gallon

CLEAR
NO COLOR
NO ODOR
Bladder Pump

Well ID							Final	Units
AP14	DTW	1.43					1.43	ft
	DTB							ft
	MP Elev							ft
	Time	901	925	928	931	934	934	
	Temp		12.9	12.9	12.9	12.9	12.9	C
	D.O.		4.53	3.29	4.79	3.66	3.66	Mg/l
	Cond		2321	2315	2317	2304	2304	uS/cm
	pH		6.92	6.92	6.93	6.93	6.93	
	Orp		52.1	38.8	41	29.4	29.4	mV
	Turbidity		31.53	24.91	30.05	24.67	24.67	NTU
	Drawdn							ft
	Volume		1.04	1.17	1.3	1.43	1.43	Gallon

WELL GOES DRY
SUB PUMP
SLIGHT CLOUDY
NO COLOR
NO ODOR

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

March 09, 2022

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 22011434

Dear Shelly Hennessy:

Order No.: 22021386

Summit Environmental Technologies, Inc. received 14 sample(s) on 2/21/2022 for the analyses presented in the following report.

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 011, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Case Narrative

WO#: **22021386**
Date: **3/9/2022**

CLIENT: TEKLAB Inc,
Project: 22011434

WorkOrder Narrative:
22021386: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Sample Notes:
22011434-014: One sample matrix is clear, the other sample has a "dirty" appearance through the bottle . The ID numbers on the the bottles both indicate 22011434-014B and both lids indicate "AP-13". Composite both bottles per client.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, In
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-448
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **22021386**
Date: **3/9/2022**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

Summit Environmental Technologies, Inc.
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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Workorder Sample Summary

WO#: **22021386**
09-Mar-22

CLIENT: TEKLAB Inc,
Project: 22011434

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
22021386-001	22011434-001		2/16/2022 1:34:00 PM	2/21/2022 1:15:00 PM	Non-Potable Water
22021386-002	22011434-002		2/15/2022 11:55:00 AM	2/21/2022 1:15:00 PM	Non-Potable Water
22021386-003	22011434-003		2/15/2022 11:31:00 AM	2/21/2022 1:15:00 PM	Non-Potable Water
22021386-004	22011434-004		2/15/2022 11:08:00 AM	2/21/2022 1:15:00 PM	Non-Potable Water
22021386-005	22011434-005		2/16/2022 10:05:00 AM	2/21/2022 1:15:00 PM	Non-Potable Water
22021386-006	22011434-006		2/16/2022 10:37:00 AM	2/21/2022 1:15:00 PM	Non-Potable Water
22021386-007	22011434-007		2/15/2022 1:46:00 PM	2/21/2022 1:15:00 PM	Non-Potable Water
22021386-008	22011434-008		2/15/2022 2:33:00 PM	2/21/2022 1:15:00 PM	Non-Potable Water
22021386-009	22011434-009		2/15/2022 1:12:00 PM	2/21/2022 1:15:00 PM	Non-Potable Water
22021386-010	22011434-010		2/15/2022 3:01:00 PM	2/21/2022 1:15:00 PM	Non-Potable Water
22021386-011	22011434-012		2/16/2022 12:51:00 PM	2/21/2022 1:15:00 PM	Non-Potable Water
22021386-012	22011434-013		2/16/2022 12:17:00 PM	2/21/2022 1:15:00 PM	Non-Potable Water
22021386-013	22011434-014		2/16/2022 11:34:00 AM	2/21/2022 1:15:00 PM	Non-Potable Water
22021386-014	22011434-015		2/16/2022 9:34:00 AM	2/21/2022 1:15:00 PM	Non-Potable Water

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DATES REPORT

WO#: **22021386**

09-Mar-22

Client: TEKLAB Inc,

Project: 22011434

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
22021386-001A	22011434-001	2/16/2022 1:34:00 PM	Non-Potable Water	Radium-226 (EPA 903.0)		2/24/2022 12:36:54 PM	3/3/2022 1:27:09 PM
				Radium-228 (EPA 904.0)		2/24/2022 12:36:54 PM	3/3/2022 1:07:31 PM
22021386-002A	22011434-002	2/15/2022 11:55:00 AM		Radium-226 (EPA 903.0)		2/24/2022 12:36:54 PM	3/3/2022 1:27:09 PM
				Radium-228 (EPA 904.0)		2/24/2022 12:36:54 PM	3/3/2022 1:07:31 PM
22021386-003A	22011434-003	2/15/2022 11:31:00 AM		Radium-226 (EPA 903.0)		2/24/2022 12:36:54 PM	3/3/2022 1:27:09 PM
				Radium-228 (EPA 904.0)		2/24/2022 12:36:54 PM	3/3/2022 1:07:31 PM
22021386-004A	22011434-004	2/15/2022 11:08:00 AM		Radium-226 (EPA 903.0)		2/24/2022 12:36:54 PM	3/3/2022 1:27:09 PM
				Radium-228 (EPA 904.0)		2/24/2022 12:36:54 PM	3/3/2022 1:07:31 PM
22021386-005A	22011434-005	2/16/2022 10:05:00 AM		Radium-226 (EPA 903.0)		2/24/2022 12:36:54 PM	3/3/2022 1:27:09 PM
				Radium-228 (EPA 904.0)		2/24/2022 12:36:54 PM	3/3/2022 1:07:31 PM
22021386-006A	22011434-006	2/16/2022 10:37:00 AM		Radium-226 (EPA 903.0)		2/24/2022 12:36:54 PM	3/3/2022 1:27:09 PM
				Radium-228 (EPA 904.0)		2/24/2022 12:36:54 PM	3/3/2022 1:07:31 PM
				Radium-228 (EPA 904.0)		3/7/2022 1:09:18 PM	3/8/2022 4:26:09 PM
22021386-007A	22011434-007	2/15/2022 1:46:00 PM		Radium-226 (EPA 903.0)		2/24/2022 12:36:54 PM	3/3/2022 1:27:09 PM
				Radium-228 (EPA 904.0)		2/24/2022 12:36:54 PM	3/3/2022 1:07:31 PM
22021386-008A	22011434-008	2/15/2022 2:33:00 PM		Radium-226 (EPA 903.0)		2/24/2022 12:36:54 PM	3/3/2022 1:27:09 PM
				Radium-228 (EPA 904.0)		2/24/2022 12:36:54 PM	3/3/2022 1:07:31 PM
22021386-009A	22011434-009	2/15/2022 1:12:00 PM		Radium-226 (EPA 903.0)		2/24/2022 12:36:54 PM	3/3/2022 1:27:09 PM
				Radium-228 (EPA 904.0)		2/24/2022 12:36:54 PM	3/3/2022 1:07:31 PM
22021386-010A	22011434-010	2/15/2022 3:01:00 PM		Radium-226 (EPA 903.0)		2/24/2022 12:36:54 PM	3/3/2022 1:27:09 PM
				Radium-228 (EPA 904.0)		2/24/2022 12:36:54 PM	3/3/2022 1:07:31 PM
22021386-011A	22011434-012	2/16/2022 12:51:00 PM		Radium-226 (EPA 903.0)		2/24/2022 12:36:54 PM	3/3/2022 1:27:09 PM
				Radium-228 (EPA 904.0)		2/24/2022 12:36:54 PM	3/3/2022 1:07:31 PM

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

DATES REPORT

WO#: **22021386**

09-Mar-22

Client: TEKLAB Inc,

Project: 22011434

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
22021386-012A	22011434-013	2/16/2022 12:17:00 PM	Non-Potable Water	Radium-226 (EPA 903.0)		2/24/2022 12:36:54 PM	3/3/2022 1:27:09 PM
				Radium-228 (EPA 904.0)		2/24/2022 12:36:54 PM	3/3/2022 1:07:31 PM
22021386-013A	22011434-014	2/16/2022 11:34:00 AM		Radium-226 (EPA 903.0)		2/25/2022 12:41:09 PM	3/4/2022 3:02:37 PM
				Radium-228 (EPA 904.0)		2/25/2022 12:41:09 PM	3/4/2022 2:38:33 PM
22021386-014A	22011434-015	2/16/2022 9:34:00 AM		Radium-226 (EPA 903.0)		2/25/2022 12:41:09 PM	3/4/2022 3:02:37 PM
				Radium-228 (EPA 904.0)		2/25/2022 12:41:09 PM	3/4/2022 2:38:33 PM

Original

Summit Environmental Technologies, Inc.
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Analytical Report

(consolidated)

WO#: **22021386**

Date Reported: **3/9/2022**

CLIENT: TEKLAB Inc,
Project: 22011434
Lab ID: 22021386-001
Client Sample ID: 22011434-001

Collection Date: 2/16/2022 1:34:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **JEB**
Radium-226	ND	1.00		pCi/L	± 0.13	1	3/3/2022 1:27:09 PM
Yield	0.880					1	3/3/2022 1:27:09 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **JEB**
Radium-228	ND	1.00		pCi/L	± 0.84	1	3/3/2022 1:07:31 PM
Yield	0.990					1	3/3/2022 1:07:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

Summit Environmental Technologies, Inc.
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Analytical Report

(consolidated)

WO#: **22021386**

Date Reported: **3/9/2022**

CLIENT: TEKLAB Inc,
Project: 22011434
Lab ID: 22021386-002
Client Sample ID: 22011434-002

Collection Date: 2/15/2022 11:55:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **JEB**
Radium-226	ND	1.00		pCi/L	± 0.18	1	3/3/2022 1:27:09 PM
Yield	0.860					1	3/3/2022 1:27:09 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **JEB**
Radium-228	1.36	1.00		pCi/L	± 1.07	1	3/3/2022 1:07:31 PM
Yield	0.850					1	3/3/2022 1:07:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **22021386**

Date Reported: **3/9/2022**

CLIENT: TEKLAB Inc,
Project: 22011434
Lab ID: 22021386-003
Client Sample ID: 22011434-003

Collection Date: 2/15/2022 11:31:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **JEB**
Radium-226	ND	1.00		pCi/L	± 0.14	1	3/3/2022 1:27:09 PM
Yield	0.970					1	3/3/2022 1:27:09 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **JEB**
Radium-228	ND	1.00		pCi/L	± 0.8	1	3/3/2022 1:07:31 PM
Yield	0.990					1	3/3/2022 1:07:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22021386**

Date Reported: **3/9/2022**

CLIENT: TEKLAB Inc,
Project: 22011434
Lab ID: 22021386-004
Client Sample ID: 22011434-004

Collection Date: 2/15/2022 11:08:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **JEB**
Radium-226	ND	1.00		pCi/L	± 0.08	1	3/3/2022 1:27:09 PM
Yield	0.910					1	3/3/2022 1:27:09 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **JEB**
Radium-228	ND	1.00		pCi/L	± 0.83	1	3/3/2022 1:07:31 PM
Yield	0.880					1	3/3/2022 1:07:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22021386**

Date Reported: **3/9/2022**

CLIENT: TEKLAB Inc,
Project: 22011434
Lab ID: 22021386-005
Client Sample ID: 22011434-005

Collection Date: 2/16/2022 10:05:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **JEB**
Radium-226	ND	1.00		pCi/L	± 0.14	1	3/3/2022 1:27:09 PM
Yield	0.960					1	3/3/2022 1:27:09 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **JEB**
Radium-228	1.93	1.00		pCi/L	± 1.02	1	3/3/2022 1:07:31 PM
Yield	1.00					1	3/3/2022 1:07:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22021386**

Date Reported: **3/9/2022**

CLIENT: TEKLAB Inc,
Project: 22011434
Lab ID: 22021386-006
Client Sample ID: 22011434-006

Collection Date: 2/16/2022 10:37:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **JEB**
Radium-226	ND	1.00		pCi/L	± 0.15	1	3/3/2022 1:27:09 PM
Yield	0.890					1	3/3/2022 1:27:09 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **JEB**
Radium-228	ND	1.00		pCi/L	± 0.57	1	3/8/2022 4:26:09 PM
Yield	1.00					1	3/8/2022 4:26:09 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22021386**

Date Reported: **3/9/2022**

CLIENT: TEKLAB Inc,
Project: 22011434
Lab ID: 22021386-007
Client Sample ID: 22011434-007

Collection Date: 2/15/2022 1:46:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **JEB**
Radium-226	ND	1.00		pCi/L	± 0.1	1	3/3/2022 1:27:09 PM
Yield	1.00					1	3/3/2022 1:27:09 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **JEB**
Radium-228	ND	1.00		pCi/L	± 0.84	1	3/3/2022 1:07:31 PM
Yield	1.00					1	3/3/2022 1:07:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22021386**

Date Reported: **3/9/2022**

CLIENT: TEKLAB Inc,
Project: 22011434
Lab ID: 22021386-008
Client Sample ID: 22011434-008

Collection Date: 2/15/2022 2:33:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **JEB**
Radium-226	ND	1.00		pCi/L	± 0.19	1	3/3/2022 1:27:09 PM
Yield	0.650					1	3/3/2022 1:27:09 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **JEB**
Radium-228	ND	1.00		pCi/L	± 1.16	1	3/3/2022 1:07:31 PM
Yield	0.640					1	3/3/2022 1:07:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22021386**

Date Reported: **3/9/2022**

CLIENT: TEKLAB Inc,
Project: 22011434
Lab ID: 22021386-009
Client Sample ID: 22011434-009

Collection Date: 2/15/2022 1:12:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **JEB**
Radium-226	ND	1.00		pCi/L	± 0.19	1	3/3/2022 1:27:09 PM
Yield	0.640					1	3/3/2022 1:27:09 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **JEB**
Radium-228	ND	1.00		pCi/L	± 1	1	3/3/2022 1:07:31 PM
Yield	0.720					1	3/3/2022 1:07:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22021386**

Date Reported: **3/9/2022**

CLIENT: TEKLAB Inc,
Project: 22011434
Lab ID: 22021386-011
Client Sample ID: 22011434-012

Collection Date: 2/16/2022 12:51:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **JEB**
Radium-226	ND	1.00		pCi/L	± 0.24	1	3/3/2022 1:27:09 PM
Yield	0.650					1	3/3/2022 1:27:09 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **JEB**
Radium-228	ND	1.00		pCi/L	± 1.3	1	3/3/2022 1:07:31 PM
Yield	0.650					1	3/3/2022 1:07:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22021386**
09-Mar-22

Client: TEKLAB Inc,
Project: 22011434 **BatchID:** **55267**

Sample ID: **22021386-004ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/24/2022** RunNo: **140953**
Client ID: **22011434-004** Batch ID: **55267** TestNo: **E904.0** **E903-904** Analysis Date: **3/3/2022** SeqNo: **3717136**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.01	1.00		0	0			0.7900	24.4	30	
Yield	0.940			0	0			0.8800	6.59		

Sample ID: **22021386-003AMS** SampType: **MS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/24/2022** RunNo: **140953**
Client ID: **22011434-003** Batch ID: **55267** TestNo: **E904.0** **E903-904** Analysis Date: **3/3/2022** SeqNo: **3717146**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	6.13	1.00	5.000	0	123	70	130				
Yield	0.740			0.9900	0						

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22021386**

09-Mar-22

Client: TEKLAB Inc,
Project: 22011434 **BatchID:** **55267**

Sample ID: **MB-55267**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/24/2022**	RunNo: **140953**
Client ID: **PBW**	Batch ID: **55267**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/3/2022**	SeqNo: **3717126**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-55267**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/24/2022**	RunNo: **140953**
Client ID: **LCSW**	Batch ID: **55267**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/3/2022**	SeqNo: **3717127**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.81	1.00	5.000	0	76.2	70	130				QLR
Yield	1.00			0	0						

Sample ID: **LCSD-55267**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/24/2022**	RunNo: **140953**
Client ID: **LCSS02**	Batch ID: **55267**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/3/2022**	SeqNo: **3717128**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	5.57	1.00	5.000	0	111	70	130	3.810	37.5	20	R
Yield	0.910			0	0			1.000	9.42		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **22021386**
09-Mar-22

Client: TEKLAB Inc,
Project: 22011434 **BatchID:** **55267**

Sample ID: **RLC-55267**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/24/2022**	RunNo: **140953**
Client ID: **BatchQC**	Batch ID: **55267**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/3/2022**	SeqNo: **3717147**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.33	1.00	1.000	0	133	50	150				
Yield	1.00			0	0						

Sample ID: **RLCD-55267**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/24/2022**	RunNo: **140953**
Client ID: **BatchQC**	Batch ID: **55267**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/3/2022**	SeqNo: **3717148**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.12	1.00	1.000	0	112	50	150				
Yield	1.00			0	0						

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **22021386**

09-Mar-22

Client: TEKLAB Inc,
Project: 22011434 **BatchID:** **55267**

Sample ID: **22021386-003AMS**	SampType: **MS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/24/2022**	RunNo: **140954**
Client ID: **22011434-003**	Batch ID: **55267**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/3/2022**	SeqNo: **3717156**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.95	1.00	5.000	0	99.0	70	130				

Sample ID: **22021386-004ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/24/2022**	RunNo: **140954**
Client ID: **22011434-004**	Batch ID: **55267**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/3/2022**	SeqNo: **3717164**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	0.870							0.9100	4.49	0	

Sample ID: **22021386-006ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/24/2022**	RunNo: **140954**
Client ID: **22011434-006**	Batch ID: **55267**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/3/2022**	SeqNo: **3717167**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	0.990							0.8900	10.6	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22021386**

09-Mar-22

Client: TEKLAB Inc,
Project: 22011434 **BatchID:** **55267**

Sample ID: **MB-55267** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/24/2022** RunNo: **140954**
Client ID: **PBW** Batch ID: **55267** TestNo: **E903.0** **E903-904** Analysis Date: **3/3/2022** SeqNo: **3717150**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-55267** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/24/2022** RunNo: **140954**
Client ID: **LCSW** Batch ID: **55267** TestNo: **E903.0** **E903-904** Analysis Date: **3/3/2022** SeqNo: **3717151**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.03	1.00	5.000	0	101	70	130				

Sample ID: **LCSD-55267** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/24/2022** RunNo: **140954**
Client ID: **LCSS02** Batch ID: **55267** TestNo: **E903.0** **E903-904** Analysis Date: **3/3/2022** SeqNo: **3717152**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.90	1.00	5.000	0	118	70	130	5.030	15.9	20	

Sample ID: **RLC-55267** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/24/2022** RunNo: **140954**
Client ID: **BatchQC** Batch ID: **55267** TestNo: **E903.0** **E903-904** Analysis Date: **3/3/2022** SeqNo: **3717154**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22021386**

09-Mar-22

Client: TEKLAB Inc,
Project: 22011434 **BatchID:** **55267**

Sample ID: **RLC-55267**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/24/2022**	RunNo: **140954**
Client ID: **BatchQC**	Batch ID: **55267**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/3/2022**	SeqNo: **3717154**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.20	1.00	1.000	0	120	50	150				

Sample ID: **RLCD-55267**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/24/2022**	RunNo: **140954**
Client ID: **BatchQC**	Batch ID: **55267**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/3/2022**	SeqNo: **3717155**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.02	1.00	1.000	0	102	50	150				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22021386**

09-Mar-22

Client: TEKLAB Inc,
Project: 22011434 **BatchID:** **55268**

Sample ID: **MB-55268** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/25/2022** RunNo: **141026**
Client ID: **PBW** Batch ID: **55268** TestNo: **E904.0** **E903-904** Analysis Date: **3/4/2022** SeqNo: **3718896**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-55268** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/25/2022** RunNo: **141026**
Client ID: **LCSW** Batch ID: **55268** TestNo: **E904.0** **E903-904** Analysis Date: **3/4/2022** SeqNo: **3718897**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.87	1.00	5.000	0	97.4	70	130				QLR
Yield	1.00			0	0						

Sample ID: **LCSD-55268** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/25/2022** RunNo: **141026**
Client ID: **LCSS02** Batch ID: **55268** TestNo: **E904.0** **E903-904** Analysis Date: **3/4/2022** SeqNo: **3718898**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.85	1.00	5.000	0	77.0	70	130	4.870	23.4	20	R
Yield	0.960			0	0			1.000	4.08		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **22021386**

09-Mar-22

Client: TEKLAB Inc,
Project: 22011434 **BatchID:** **55268**

Sample ID: **RLCD-55268**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/25/2022**	RunNo: **141026**
Client ID: **BatchQC**	Batch ID: **55268**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/4/2022**	SeqNo: **3718900**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00	1.000	0	92.0	50	150				

Sample ID: **RLC-55268**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/25/2022**	RunNo: **141026**
Client ID: **BatchQC**	Batch ID: **55268**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/4/2022**	SeqNo: **3718919**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00	1.000	0	78.0	50	150				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **22021386**
09-Mar-22

Client: TEKLAB Inc,
Project: 22011434 **BatchID:** **55268**

Sample ID: **22021112-001ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/25/2022**	RunNo: **141026**
Client ID: **BatchQC**	Batch ID: **55268**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/4/2022**	SeqNo: **3718904**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Sample ID: **22021114-001ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/25/2022**	RunNo: **141026**
Client ID: **BatchQC**	Batch ID: **55268**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/4/2022**	SeqNo: **3718906**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			0.8900	11.6		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **22021386**

09-Mar-22

Client: TEKLAB Inc,
Project: 22011434 **BatchID:** **55268**

Sample ID: **MB-55268** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/25/2022** RunNo: **141033**
Client ID: **PBW** Batch ID: **55268** TestNo: **E903.0** **E903-904** Analysis Date: **3/4/2022** SeqNo: **3718970**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-55268** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/25/2022** RunNo: **141033**
Client ID: **LCSW** Batch ID: **55268** TestNo: **E903.0** **E903-904** Analysis Date: **3/4/2022** SeqNo: **3718971**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.26	1.00	5.000	0	85.2	70	130				

Sample ID: **LCSD-55268** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/25/2022** RunNo: **141033**
Client ID: **LCSS02** Batch ID: **55268** TestNo: **E903.0** **E903-904** Analysis Date: **3/4/2022** SeqNo: **3718972**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.14	1.00	5.000	0	103	70	130	4.260	18.7	20	

Sample ID: **RLC-55268** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/25/2022** RunNo: **141033**
Client ID: **BatchQC** Batch ID: **55268** TestNo: **E903.0** **E903-904** Analysis Date: **3/4/2022** SeqNo: **3718974**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22021386**

09-Mar-22

Client: TEKLAB Inc,
Project: 22011434 **BatchID:** **55268**

Sample ID: **RLC-55268**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/25/2022**	RunNo: **141033**
Client ID: **BatchQC**	Batch ID: **55268**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/4/2022**	SeqNo: **3718974**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00	1.000	0	67.0	50	150				

Sample ID: **RLCD-55268**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/25/2022**	RunNo: **141033**
Client ID: **BatchQC**	Batch ID: **55268**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/4/2022**	SeqNo: **3719007**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00	1.000	0	61.0	50	150				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22021386**
09-Mar-22

Client: TEKLAB Inc,
Project: 22011434 **BatchID:** **55391**

Sample ID: **RLCD-55391**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **3/7/2022**	RunNo: **141176**
Client ID: **BatchQC**	Batch ID: **55391**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/8/2022**	SeqNo: **3722587**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.06	1.00	1.000	0	106	50	150				
Yield	1.00			0	0						

Sample ID: **22021558-001AMS**	SampType: **MS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **3/7/2022**	RunNo: **141176**
Client ID: **BatchQC**	Batch ID: **55391**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/8/2022**	SeqNo: **3722588**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	5.63	1.00	5.000	0.8400	95.8	70	130				
Yield	1.00			1.000	0						

Sample ID: **22021789-001ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **3/7/2022**	RunNo: **141176**
Client ID: **BatchQC**	Batch ID: **55391**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/8/2022**	SeqNo: **3722594**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.05	1.00		0	0			0.9300	12.1	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22021386**

09-Mar-22

Client: TEKLAB Inc,
Project: 22011434 **BatchID:** **55391**

Sample ID: **22030062-003ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **3/7/2022**	RunNo: **141176**
Client ID: **BatchQC**	Batch ID: **55391**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/8/2022**	SeqNo: **3722596**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	1.00			0	0			1.000	0		

Sample ID: **MB-55391**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **3/7/2022**	RunNo: **141176**
Client ID: **PBW**	Batch ID: **55391**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/8/2022**	SeqNo: **3722603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	0.940			0	0						

Sample ID: **LCS-55391**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **3/7/2022**	RunNo: **141176**
Client ID: **LCSW**	Batch ID: **55391**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/8/2022**	SeqNo: **3722604**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.99	1.00	5.000	0	99.8	70	130				
Yield	1.00			0	0						

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22021386**
09-Mar-22

Client: TEKLAB Inc,
Project: 22011434 **BatchID:** **55391**

Sample ID: **RLC-55391** SampType: **RLC** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **3/7/2022** RunNo: **141176**
Client ID: **BatchQC** Batch ID: **55391** TestNo: **E904.0** **E903-904** Analysis Date: **3/8/2022** SeqNo: **3722605**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.41	1.00	1.000	0	141	50	150				
Yield	0.910			0	0						

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

TEKLAB, INC. Chain of Custody

22021386

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: J.Riley/A Bridges | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 22/228 by EPA 903.0/904.0 on your standard turn around time.
Batch QC is required for all analyses requested.

Project# 22011434

Contact: Shelly A. Hennessy | Email: shennessy@teklabinc.com
Requested Due Date: STD TAT | Billing/PO: 32473

Any changes to analysis/methods must be approved by Teklab, Inc.
Phone: (618) 344-1004 ext 36

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228											
-	22011434-001	2/16/22 1334	HNO3	Groundwater	☑	☐	☐	☐	☐	☐	☐	☐	cpm 30, 25	pH 1, 1
-	22011434-002	2/15/22 1155	HNO3	Groundwater	☑	☐	☐	☐	☐	☐	☐	☐	cpm 6, 23	pH 1, 1
	22011434-003	2/15/22 1131	HNO3	Groundwater	☑	☐	☐	☐	☐	☐	☐	☐	cpm 30, 40	pH 1, 1
	22011434-004	2/15/22 1108	HNO3	Groundwater	☑	☐	☐	☐	☐	☐	☐	☐	cpm 27, 30	pH 1, 1
	22011434-005	2/16/22 1005	HNO3	Groundwater	☑	☐	☐	☐	☐	☐	☐	☐	cpm 33, 33	pH 1, 1
	22011434-006	2/16/22 1037	HNO3	Groundwater	☑	☐	☐	☐	☐	☐	☐	☐	cpm 27, 27	pH 1, 1
	22011434-007	2/15/22 1346	HNO3	Groundwater	☑	☐	☐	☐	☐	☐	☐	☐	cpm 23, 37	pH 1, 1
	22011434-008	2/15/22 1433	HNO3	Groundwater	☑	☐	☐	☐	☐	☐	☐	☐	cpm 27, 30	pH 1, 1
	22011434-009	2/15/22 1312	HNO3	Groundwater	☑	☐	☐	☐	☐	☐	☐	☐	cpm 37, 16	pH 1, 1
	22011434-010	2/15/22 1501	HNO3	Groundwater	☑	☐	☐	☐	☐	☐	☐	☐	cpm 27, 10	pH 1, 1
	22011434-012	2/16/22 1251	HNO3	Groundwater	☑	☐	☐	☐	☐	☐	☐	☐	cpm 14, 23	pH 1, 1

*Relinquished By	Date/Time	Received By	Date/Time
Mary Kupp	2/17/22 10:00		2/21/22 13:15

13.4-1.0=12.4°C #1
6.7-1.0=5.7°C #2
4.5-1.0=3.5°C #3
8.0-1.0=7.0°C #4

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SubCOCRevA 3/2/2016

TEKLAB, INC. Chain of Custody

22021386

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: J.Riley/A Bridges | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 22/228 by EPA 903.0/904.0 on your standard turn around time.
Batch QC is required for all analyses requested.
Any changes to analysis/methods must be approved by Teklab, Inc.

Project# 22011434

Contact: Shelly A. Hennessy | Email: shennessy@teklabinc.com
Requested Due Date: STD TAT | Billing/PO: 32473 | Phone: (618) 344-1004 ext 36

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228												
	22011434-013	2/16/22 1217	HNO3	Groundwater	✔								clm	30,33	pH	1	
	22011434-014	2/16/22 1134	HNO3	Groundwater	✔								clm	14,4	pH	1	
	22011434-015	2/16/22 0934	HNO3	Groundwater	✔								clm	30,40	pH	1	
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													

*Relinquished By	Date/Time	Received By	Date/Time
Mary Kemp	2/17/22 1600		2/21/22 13:15

13.4-1.0=12.4°C #1
6.7-1.0=5.7°C #2
4.5-1.0=3.5°C #3
8.0-1.0=7.0°C #4

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRev 3/2/2016

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **22021386** RcptNo: **1**

Logged by:	**John T. Woolf**	**2/21/2022 1:15:00 PM**	John T. Woolf
Completed By:	**John T. Woolf**	**2/21/2022 4:04:18 PM**	John T. Woolf
Reviewed By:	**Jennifer Woolf**	**2/21/2022 4:27:41 PM**	Jennifer Woolf

Chain of Custody

1.	Were seals intact?	Yes ☑	No ☐	Not Present ☐
2.	Is Chain of Custody complete?	Yes ☐	No ☑	Not Present ☐
3.	How was the sample delivered?	FedEx		

Log In

4.	Coolers are present?	Yes ☐	No ☑	NA ☐
5.	Was an attempt made to cool the samples?	Yes ☐	No ☑	NA ☐
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☑	NA ☐
		Not required		
7.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
8.	Sufficient sample volume for indicated test(s)?	Yes ☐	No ☑	
9.	Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
10.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
11.	Is the headspace in the VOA vials less than 1/4 inch or 6 mm?	Yes ☐	No ☐	No VOA Vials ☑
12.	Were any sample containers received broken?	Yes ☐	No ☑	
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
14.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
15.	Is it clear what analyses were requested?	Yes ☐	No ☑	
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

Special Handling (if applicable)

17.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

no
project address not included
combined?

Cooler Information

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **22021386** RcptNo: **1**

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
2	5.7	Good	Not Present			
3	3.5	Good	Not Present			
4	7.0	Good	Not Present			
cooler	12.4	Good	Not Present			

April 12, 2022

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 22031261

Dear Eric Staley:

TEKLAB, INC received 1 sample on 3/18/2022 12:30:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 22031261
Report Date: 12-Apr-22

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	8
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 22031261

Client Project: Ash Pond Monitoring Wells **Report Date:** 12-Apr-22

Abbr Definition

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Definitions

Client: City Water, Light & Power
Work Order: 22031261
Client Project: Ash Pond Monitoring Wells
Report Date: 12-Apr-22

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 22031261
Report Date: 12-Apr-22

Cooler Receipt Temp: 11.0 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 and Radium-228 analysis was performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power
Work Order: 22031261
Client Project: Ash Pond Monitoring Wells
Report Date: 12-Apr-22

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2023	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2022	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2022	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2022	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2022	Collinsville
Arkansas	ADEQ	88-0966		3/14/2023	Collinsville
Illinois	IDPH	17584		5/31/2023	Collinsville
Kentucky	UST	0073		1/31/2023	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: City Water, Light & Power
Work Order: 22031261
Client Project: Ash Pond Monitoring Wells
Report Date: 12-Apr-22
Lab ID: 22031261-001
Client Sample ID: AP-10
Matrix: GROUNDWATER
Collection Date: 03/18/2022 10:46

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**499.43**	ft	1	03/18/2022 10:46	R308763
Depth to water	*	-5.00		**1.51**	ft	1	03/18/2022 10:46	R308763
Depth to water from measuring point	*	0		**4.61**	ft	1	03/18/2022 10:46	R308763
Elevation of groundwater surface	*	0		**532.89**	ft	1	03/18/2022 10:46	R308763
Measuring Point Elevation	*	0		**537.50**	ft	1	03/18/2022 10:46	R308763
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	03/18/2022 10:46	R308763
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**9.0**	NTU	1	03/18/2022 10:46	R308763
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.6**	°F	1	03/18/2022 10:46	R308763
SW-846 9040B								
pH, Field	*	1.00		**6.54**		1	03/18/2022 10:46	R308763
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1770**	µmhos/cm @25C	1	03/18/2022 10:46	R308763
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	*	50		**740**	mg/L	2.5	03/24/2022 8:05	R308809
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**86**	mg/L	5	03/21/2022 23:05	R308553
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.34**	mg/L	1	03/22/2022 7:59	R308531
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**28**	mg/L	1	03/21/2022 23:00	R308507
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	03/23/2022 17:39	188826
Barium	NELAP	0.0025		**0.583**	mg/L	1	03/23/2022 17:39	188826
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	03/23/2022 17:39	188826
Boron	NELAP	0.0200		**3.51**	mg/L	1	03/23/2022 17:39	188826
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	03/23/2022 17:39	188826
Calcium	NELAP	0.100	S	**143**	mg/L	1	03/23/2022 17:39	188826
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	03/23/2022 17:39	188826
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	03/23/2022 17:39	188826
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	03/23/2022 17:39	188826
Lithium	NELAP	0.0050		**0.0094**	mg/L	1	03/24/2022 14:19	188826
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	03/23/2022 17:39	188826
Matrix spike control limits for Ca are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	03/23/2022 19:29	188826
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	03/23/2022 19:29	188826
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	03/23/2022 21:56	188826
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	03/23/2022 18:06	188829
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	04/08/2022 0:00	R309468
Radium-228	*	0		**See attached**	pci/L	1	04/08/2022 0:00	R309468

Receiving Check List

Teklab, Inc. Environmental Laboratory

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 22031261
Report Date: 12-Apr-22

Carrier: Joe Riley

Received By: PWR

Completed by: Mary E. Kemp
On: 18-Mar-22
Mary E. Kemp

Reviewed by: Shelly A Hennessy
On: 18-Mar-22
Shelly A. Hennessy

Pages to follow: Chain of custody [1] Extra pages included [13]

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 11.0
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

pH strip #78011. - MKemp - 3/18/2022 12:43:03 PM

Additional nitric acid (80810) was needed upon arrival at the laboratory. - MKemp - 3/18/2022 12:43:10 PM

Print PDF

CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 220312b1

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [x] ICE [ ] BLUE ICE [ ] NO ICE 11.0 °C
Preserved in: [x] LAB [ ] FIELD FOR LAB USE ONLY LTG-5
LAB NOTES: 8011, additional HNO3 (8081Q) mel 3/18/22
Resample - well was frozen during Feb sampling SM 3/18/22

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [x] No
Are these samples known to be hazardous? [ ] Yes [x] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [x] Yes [x] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb Se Tl (ICPMS) As Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
J. RILEY

RESULTS REQUESTED
[x] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers									INDICATE ANALYSIS REQUESTED												
				UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity								
	RW-3		Groundwater	1	3								✔	✔	✔	✔	✔	✔								
	AP-1		Groundwater	1	3								✔	✔	✔	✔	✔	✔								
	AP-2		Groundwater	1	3								✔	✔	✔	✔	✔	✔								
	AP-3		Groundwater	1	3								✔	✔	✔	✔	✔	✔								
	AP-4		Groundwater	1	3								✔	✔	✔	✔	✔	✔								
	AP-5		Groundwater	1	3								✔	✔	✔	✔	✔	✔								
	AP-6		Groundwater	1	3								✔	✔	✔	✔	✔	✔								
	AP-7		Groundwater	1	3								✔	✔	✔	✔	✔	✔								
	AP-8		Groundwater	1	3								✔	✔	✔	✔	✔	✔								
	AP-9		Groundwater	1	3								✔	✔	✔	✔	✔	✔								
220312b1-001	AP-10	03/18/22 1046	Groundwater	1	3								✔	✔	✔	✔	✔	✔								

Relinquished By	Date/Time	Received By	Date/Time
	03/18/22 1230		3/18/22 1230

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

mel 3/18/22

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

April 11, 2022

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 22031261-001

Dear Shelly Hennessy:

Order No.: 22031526

Summit Environmental Technologies, Inc. received 1 sample(s) on 3/22/2022 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 011, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Case Narrative

WO#: **22031526**
Date: **4/11/2022**

CLIENT: TEKLAB Inc,
Project: 22031261-001

WorkOrder Narrative:
22031526: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, In
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-448
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **22031526**
Date: **4/11/2022**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Workorder Sample Summary

WO#: **22031526**
11-Apr-22

CLIENT: TEKLAB Inc,
Project: 22031261-001

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
22031526-001	22031261-001B		3/18/2022 10:46:00 AM	3/22/2022 11:30:00 AM	Groundwater

Summit Environmental Technologies, Inc.
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DATES REPORT

WO#: **22031526**

11-Apr-22

Client: TEKLAB Inc,

Project: 22031261-001

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
22031526-001A	22031261-001B	3/18/2022 10:46:00 AM	Groundwater	Radium-226 (EPA 903.0)		4/1/2022 11:05:00 AM	4/11/2022 10:10:00 AM
				Radium-228 (EPA 904.0)		4/1/2022 11:05:00 AM	4/8/2022 6:30:00 PM

Original

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Analytical Report

(consolidated)

WO#: **22031526**

Date Reported: **4/11/2022**

CLIENT: TEKLAB Inc,
Collection Date: 3/18/2022 10:46:00 AM
Project: 22031261-001
Lab ID: 22031526-001
Matrix: GROUNDWATER
Client Sample ID: 22031261-001B

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.24	1	4/11/2022 10:10:00 AM
Yield	1.00					1	4/11/2022 10:10:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.86	1	4/8/2022 6:30:00 PM
Yield	1.00					1	4/8/2022 6:30:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

Summit Environmental Technologies, Inc.
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QC SUMMARY REPORT

WO#: **22031526**

11-Apr-22

Client: TEKLAB Inc,
Project: 22031261-001 **BatchID:** **55953**

Sample ID: **MB-55953** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **4/1/2022** RunNo: **142688**
Client ID: **PBW** Batch ID: **55953** TestNo: **E904.0** **E903-904** Analysis Date: **4/8/2022** SeqNo: **3762873**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-55953** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **4/1/2022** RunNo: **142688**
Client ID: **LCSW** Batch ID: **55953** TestNo: **E904.0** **E903-904** Analysis Date: **4/8/2022** SeqNo: **3762874**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.61	1.00	5.000	0	72.2	70	130				
Yield	1.00			0	0						

Sample ID: **LCSD-55953** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **4/1/2022** RunNo: **142688**
Client ID: **LCSS02** Batch ID: **55953** TestNo: **E904.0** **E903-904** Analysis Date: **4/8/2022** SeqNo: **3762875**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.50	1.00	5.000	0	70.0	70	130	3.610	3.09	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **22031526**

11-Apr-22

Client: TEKLAB Inc,
Project: 22031261-001 **BatchID:** **55953**

Sample ID: **RLCD-55953** SampType: **RLC** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **4/1/2022** RunNo: **142688**
Client ID: **BatchQC** Batch ID: **55953** TestNo: **E904.0** **E903-904** Analysis Date: **4/8/2022** SeqNo: **3762878**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00	1.000	0	68.0	50	150				
Yield	1.00			0	0						

Sample ID: **22031321-005AMS** SampType: **MS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **4/1/2022** RunNo: **142688**
Client ID: **BatchQC** Batch ID: **55953** TestNo: **E904.0** **E903-904** Analysis Date: **4/8/2022** SeqNo: **3762879**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.92	1.00	5.000	0	78.4	70	130				
Yield	1.00			1.000	0						

Sample ID: **22031321-006ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **4/1/2022** RunNo: **142688**
Client ID: **BatchQC** Batch ID: **55953** TestNo: **E904.0** **E903-904** Analysis Date: **4/8/2022** SeqNo: **3762882**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **22031526**

11-Apr-22

Client: TEKLAB Inc,
Project: 22031261-001 **BatchID:** **55953**

Sample ID: **22031321-007ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **4/1/2022** RunNo: **142688**
Client ID: **BatchQC** Batch ID: **55953** TestNo: **E904.0** **E903-904** Analysis Date: **4/8/2022** SeqNo: **3762884**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **22031526**

11-Apr-22

Client: TEKLAB Inc,
Project: 22031261-001 **BatchID:** **55953**

Sample ID: **MB-55953**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **4/1/2022**	RunNo: **142690**
Client ID: **PBW**	Batch ID: **55953**	TestNo: **E903.0**	**E903-904**	Analysis Date: **4/11/2022**	SeqNo: **3762932**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-55953**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **4/1/2022**	RunNo: **142690**
Client ID: **LCSW**	Batch ID: **55953**	TestNo: **E903.0**	**E903-904**	Analysis Date: **4/11/2022**	SeqNo: **3762933**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.40	1.00	5.000	0	88.0	70	130				

Sample ID: **LCSD-55953**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **4/1/2022**	RunNo: **142690**
Client ID: **LCSS02**	Batch ID: **55953**	TestNo: **E903.0**	**E903-904**	Analysis Date: **4/11/2022**	SeqNo: **3762934**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.04	1.00	5.000	0	80.8	70	130	4.400	8.53	20	

Sample ID: **RLC-55953**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **4/1/2022**	RunNo: **142690**
Client ID: **BatchQC**	Batch ID: **55953**	TestNo: **E903.0**	**E903-904**	Analysis Date: **4/11/2022**	SeqNo: **3762936**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **22031526**

11-Apr-22

Client: TEKLAB Inc,
Project: 22031261-001 **BatchID:** **55953**

Sample ID: **RLC-55953**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **4/1/2022**	RunNo: **142690**
Client ID: **BatchQC**	Batch ID: **55953**	TestNo: **E903.0**	**E903-904**	Analysis Date: **4/11/2022**	SeqNo: **3762936**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00	1.000	0	74.0	50	150				

Sample ID: **RLCD-55953**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **4/1/2022**	RunNo: **142690**
Client ID: **BatchQC**	Batch ID: **55953**	TestNo: **E903.0**	**E903-904**	Analysis Date: **4/11/2022**	SeqNo: **3762937**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.07	1.00	1.000	0	107	50	150				

Sample ID: **22031321-006ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **4/1/2022**	RunNo: **142690**
Client ID: **BatchQC**	Batch ID: **55953**	TestNo: **E903.0**	**E903-904**	Analysis Date: **4/11/2022**	SeqNo: **3762939**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Pg ___ of ___

TEKLAB, INC. Chain of Custody

22031526

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☒ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: 13.7 13.8-0.1= Sampler: J. Riley QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226 and Radium 228 by EPA 903.0/904.0 on your standard turn around time.
Batch QC is required for all analyses requested.

Project# 22031261

Contact: Shelly A. Hennessy Email: shennessy@teklabinc.com

Requested Due Date: STD TAT Billing/PO: 32579 Phone: (618) 344-1004 ext 36

Fedex, no ice, Cooler

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium-226	Radium-228	cpm →	pH →
	22031261-001B	3/18/22 1046	HNO3	Groundwater	✓	✓	6	12
			Unpres	Drinking Water				
			Unpres	Drinking Water				
			Unpres	Drinking Water				
			Unpres	Drinking Water				
			Unpres	Drinking Water				
			Unpres	Drinking Water				
			Unpres	Drinking Water				
			Unpres	Drinking Water				
			Unpres	Drinking Water				
			Unpres	Drinking Water				

*Relinquished By	Date/Time	Received By	Date/Time
Mary Kemp		[illegible]	3/22/22, 1130

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA
3/2/2016

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **22031526** RcptNo: **1**

Logged by:	**Tegan A. Richards**	**3/22/2022 11:30:00 AM**	Tegan Richards
Completed By:	**Tegan A. Richards**	**3/23/2022 2:08:01 PM**	Tegan Richards
Reviewed By:	**Jennifer Woolf**	**3/23/2022 3:56:32 PM**	Jennifer Woolf

Chain of Custody

1.	Were seals intact?	Yes ☑	No ☐	Not Present ☐
2.	Is Chain of Custody complete?	Yes ☐	No ☑	Not Present ☐
3.	How was the sample delivered?	FedEx		

Log In

4.	Coolers are present?	Yes ☐	No ☑	NA ☐
5.	Was an attempt made to cool the samples?	Yes ☐	No ☑	NA ☐
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☑	NA ☐
		Not required		
7.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
8.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
9.	Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
10.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
11.	Is the headspace in the VOA vials less than 1/4 inch or 6 mm?	Yes ☐	No ☐	No VOA Vials ☑
12.	Were any sample containers received broken?	Yes ☐	No ☑	
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
14.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
15.	Is it clear what analyses were requested?	Yes ☑	No ☐	
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

18. Additional remarks:

IL per email

project state not included

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
box	13.7	Good	Not Present			

May 2022 Laboratory Analytical Report

July 13, 2022

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 22051753

Dear Eric Staley:

TEKLAB, INC received 15 samples on 6/2/2022 7:33:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 22051753
Report Date: 13-Jul-22

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	23
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 22051753

Client Project: Ash Pond Monitoring Wells **Report Date:** 13-Jul-22

Abbr Definition

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power

Work Order: 22051753

Client Project: Ash Pond Monitoring Wells

Report Date: 13-Jul-22

Qualifiers

- Unknown hydrocarbon

B - Analyte detected in associated Method Blank

C - RL shown is a Client Requested Quantitation Limit

E - Value above quantitation range

H - Holding times exceeded

I - Associated internal standard was outside method criteria

J - Analyte detected below quantitation limits

M - Manual Integration used to determine area response

ND - Not Detected at the Reporting Limit

R - RPD outside accepted recovery limits

S - Spike Recovery outside recovery limits

T - TIC(Tentatively identified compound)

X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 22051753
Report Date: 13-Jul-22

Cooler Receipt Temp: 2.0 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 and Radium-228 analysis was performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 22051753
Report Date: 13-Jul-22

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2023	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2023	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2023	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2023	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2022	Collinsville
Arkansas	ADEQ	88-0966		3/14/2023	Collinsville
Illinois	IDPH	17584		5/31/2023	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2023	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: City Water, Light & Power
Work Order: 22051753
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jul-22
Lab ID: 22051753-001
Client Sample ID: RW-3
Matrix: GROUNDWATER
Collection Date: 06/01/2022 13:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	06/01/2022 13:45	R313064
Depth to water	*	-5.00		**6.50**	ft	1	06/01/2022 13:45	R313064
Depth to water from measuring point	*	0		**9.20**	ft	1	06/01/2022 13:45	R313064
Elevation of groundwater surface	*	0		**530.30**	ft	1	06/01/2022 13:45	R313064
Measuring Point Elevation	*	0		**539.50**	ft	1	06/01/2022 13:45	R313064
Measuring Point Height Above Land Surface	*	0		**2.70**	ft	1	06/01/2022 13:45	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**< 1.0**	NTU	1	06/01/2022 13:45	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.5**	°F	1	06/01/2022 13:45	R313064
SW-846 9040B								
pH, Field	*	1.00		**7.20**		1	06/01/2022 13:45	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**783**	µmhos/cm @25C	1	06/01/2022 13:45	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**428**	mg/L	1	06/02/2022 12:01	R312777
SW-846 9036 (TOTAL)								
Sulfate	NELAP	20		**< 20**	mg/L	2	06/07/2022 13:55	R312927
Elevated reporting limit due to matrix interference.								
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.49**	mg/L	1	06/08/2022 9:27	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**31**	mg/L	1	06/07/2022 13:29	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**0.138**	mg/L	1	06/03/2022 14:21	193267
Barium	NELAP	0.0025		**0.148**	mg/L	1	06/03/2022 14:21	193267
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	06/03/2022 14:21	193267
Boron	NELAP	0.0200		**0.174**	mg/L	1	06/03/2022 14:21	193267
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	06/03/2022 14:21	193267
Calcium	NELAP	0.100		**71.7**	mg/L	1	06/03/2022 14:21	193267
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:21	193267
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:21	193267
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	06/03/2022 14:21	193267
Lithium	NELAP	0.0050		**0.0064**	mg/L	1	06/03/2022 14:21	193267
Molybdenum	NELAP	0.0100		**0.0106**	mg/L	1	06/03/2022 14:21	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	06/03/2022 22:17	193267
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	06/03/2022 22:17	193267
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	06/03/2022 22:17	193267
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/03/2022 10:29	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	06/20/2022 0:00	R314337
Radium-228	*	0		**See attached**	pci/L	1	06/20/2022 0:00	R314337

Client: City Water, Light & Power
Work Order: 22051753
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jul-22
Lab ID: 22051753-002
Client Sample ID: AP-1
Matrix: GROUNDWATER
Collection Date: 05/31/2022 13:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**504.29**	ft	1	05/31/2022 13:30	R313064
Depth to water	*	-5.00		**7.41**	ft	1	05/31/2022 13:30	R313064
Depth to water from measuring point	*	0		**9.68**	ft	1	05/31/2022 13:30	R313064
Elevation of groundwater surface	*	0		**525.69**	ft	1	05/31/2022 13:30	R313064
Measuring Point Elevation	*	0		**535.37**	ft	1	05/31/2022 13:30	R313064
Measuring Point Height Above Land Surface	*	0		**2.27**	ft	1	05/31/2022 13:30	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**9.4**	NTU	1	05/31/2022 13:30	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.6**	°F	1	05/31/2022 13:30	R313064
SW-846 9040B								
pH, Field	*	1.00		**6.58**		1	05/31/2022 13:30	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1700**	µmhos/cm @25C	1	05/31/2022 13:30	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1550**	mg/L	1	06/02/2022 12:02	R312777
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**791**	mg/L	20	06/07/2022 14:12	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.21**	mg/L	1	06/08/2022 9:29	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	2		**59**	mg/L	2	06/07/2022 14:06	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	06/03/2022 14:23	193267
Barium	NELAP	0.0025		**0.309**	mg/L	1	06/03/2022 14:23	193267
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	06/03/2022 14:23	193267
Boron	NELAP	0.400		**23.1**	mg/L	20	06/06/2022 19:53	193267
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	06/03/2022 14:23	193267
Calcium	NELAP	0.100		**243**	mg/L	1	06/03/2022 14:23	193267
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:23	193267
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:23	193267
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	06/03/2022 14:23	193267
Lithium	NELAP	0.0050		**0.0096**	mg/L	1	06/03/2022 14:23	193267
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	06/03/2022 14:23	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	06/03/2022 22:23	193267
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	06/03/2022 22:23	193267
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	06/03/2022 22:23	193267
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/03/2022 10:31	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	06/20/2022 0:00	R314337
Radium-228	*	0		**See attached**	pci/L	1	06/20/2022 0:00	R314337

Client: City Water, Light & Power
Work Order: 22051753
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jul-22
Lab ID: 22051753-003
Client Sample ID: AP-2
Matrix: GROUNDWATER
Collection Date: 05/31/2022 12:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.77**	ft	1	05/31/2022 12:12	R313064
Depth to water	*	-5.00		**5.46**	ft	1	05/31/2022 12:12	R313064
Depth to water from measuring point	*	0		**7.96**	ft	1	05/31/2022 12:12	R313064
Elevation of groundwater surface	*	0		**528.14**	ft	1	05/31/2022 12:12	R313064
Measuring Point Elevation	*	0		**536.10**	ft	1	05/31/2022 12:12	R313064
Measuring Point Height Above Land Surface	*	0		**2.50**	ft	1	05/31/2022 12:12	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.9**	NTU	1	05/31/2022 12:12	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**54.9**	°F	1	05/31/2022 12:12	R313064
SW-846 9040B								
pH, Field	*	1.00		**6.43**		1	05/31/2022 12:12	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1430**	µmhos/cm @25C	1	05/31/2022 12:12	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1270**	mg/L	1	06/02/2022 12:02	R312777
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**532**	mg/L	20	06/07/2022 14:20	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.24**	mg/L	1	06/08/2022 9:31	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**35**	mg/L	1	06/07/2022 14:14	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	06/03/2022 14:24	193267
Barium	NELAP	0.0025		**0.0730**	mg/L	1	06/03/2022 14:24	193267
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	06/03/2022 14:24	193267
Boron	NELAP	0.0200		**4.25**	mg/L	1	06/03/2022 14:24	193267
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	06/03/2022 14:24	193267
Calcium	NELAP	0.100		**236**	mg/L	1	06/03/2022 14:24	193267
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:24	193267
Cobalt	NELAP	0.0050		**0.0089**	mg/L	1	06/03/2022 14:24	193267
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	06/03/2022 14:24	193267
Lithium	NELAP	0.0050		**0.0056**	mg/L	1	06/03/2022 14:24	193267
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	06/03/2022 14:24	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	06/03/2022 22:28	193267
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	06/03/2022 22:28	193267
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	06/03/2022 22:28	193267
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/03/2022 10:34	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	06/20/2022 0:00	R314337
Radium-228	*	0		**See attached**	pci/L	1	06/20/2022 0:00	R314337

Client: City Water, Light & Power
Work Order: 22051753
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jul-22
Lab ID: 22051753-004
Client Sample ID: AP-3
Matrix: GROUNDWATER
Collection Date: 05/31/2022 11:47

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.45**	ft	1	05/31/2022 11:47	R313064
Depth to water	*	-5.00		**7.94**	ft	1	05/31/2022 11:47	R313064
Depth to water from measuring point	*	0		**9.64**	ft	1	05/31/2022 11:47	R313064
Elevation of groundwater surface	*	0		**525.76**	ft	1	05/31/2022 11:47	R313064
Measuring Point Elevation	*	0		**535.40**	ft	1	05/31/2022 11:47	R313064
Measuring Point Height Above Land Surface	*	0		**1.70**	ft	1	05/31/2022 11:47	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**4.1**	NTU	1	05/31/2022 11:47	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.2**	°F	1	05/31/2022 11:47	R313064
SW-846 9040B								
pH, Field	*	1.00		**6.58**		1	05/31/2022 11:47	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1070**	µmhos/cm @25C	1	05/31/2022 11:47	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**942**	mg/L	1	06/02/2022 12:02	R312777
SW-846 9036 (TOTAL)								
Sulfate	NELAP	100		**408**	mg/L	10	06/07/2022 14:27	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.24**	mg/L	1	06/08/2022 9:33	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**42**	mg/L	1	06/07/2022 14:22	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	06/03/2022 14:26	193267
Barium	NELAP	0.0025		**0.0849**	mg/L	1	06/03/2022 14:26	193267
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	06/03/2022 14:26	193267
Boron	NELAP	0.0200		**14.7**	mg/L	1	06/03/2022 14:26	193267
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	06/03/2022 14:26	193267
Calcium	NELAP	0.100		**152**	mg/L	1	06/03/2022 14:26	193267
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:26	193267
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:26	193267
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	06/03/2022 14:26	193267
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:26	193267
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	06/03/2022 14:26	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	06/03/2022 22:34	193267
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	06/03/2022 22:34	193267
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	06/03/2022 22:34	193267
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/03/2022 10:36	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	06/20/2022 0:00	R314337
Radium-228	*	0		**See attached**	pci/L	1	06/20/2022 0:00	R314337

Client: City Water, Light & Power
Work Order: 22051753
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jul-22
Lab ID: 22051753-005
Client Sample ID: AP-4
Matrix: GROUNDWATER
Collection Date: 05/31/2022 16:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.79**	ft	1	05/31/2022 16:28	R313064
Depth to water	*	-5.00		**3.78**	ft	1	05/31/2022 16:28	R313064
Depth to water from measuring point	*	0		**9.08**	ft	1	05/31/2022 16:28	R313064
Elevation of groundwater surface	*	0		**550.12**	ft	1	05/31/2022 16:28	R313064
Measuring Point Elevation	*	0		**559.20**	ft	1	05/31/2022 16:28	R313064
Measuring Point Height Above Land Surface	*	0		**5.30**	ft	1	05/31/2022 16:28	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**61**	NTU	1	05/31/2022 16:28	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.8**	°F	1	05/31/2022 16:28	R313064
SW-846 9040B								
pH, Field	*	1.00		**6.86**		1	05/31/2022 16:28	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**829**	µmhos/cm @25C	1	05/31/2022 16:28	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**516**	mg/L	1	06/02/2022 12:03	R312777
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	06/07/2022 14:46	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.15**	mg/L	1	06/08/2022 9:35	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**16**	mg/L	1	06/07/2022 14:46	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	06/03/2022 14:28	193267
Barium	NELAP	0.0025		**0.422**	mg/L	1	06/03/2022 14:28	193267
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	06/03/2022 14:28	193267
Boron	NELAP	0.0200		**0.0968**	mg/L	1	06/06/2022 19:50	193267
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	06/03/2022 14:28	193267
Calcium	NELAP	0.100		**122**	mg/L	1	06/03/2022 14:28	193267
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:28	193267
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:28	193267
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	06/03/2022 14:28	193267
Lithium	NELAP	0.0050		**0.0092**	mg/L	1	06/03/2022 14:28	193267
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	06/03/2022 14:28	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	06/03/2022 22:39	193267
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	06/03/2022 22:39	193267
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	06/03/2022 22:39	193267
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/03/2022 11:30	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	06/28/2022 0:00	R314337
Radium-228	*	0		**See attached**	pci/L	1	06/28/2022 0:00	R314337

Client: City Water, Light & Power
Work Order: 22051753
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jul-22
Lab ID: 22051753-006
Client Sample ID: AP-5
Matrix: GROUNDWATER
Collection Date: 05/31/2022 16:55

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**552.63**	ft	1	05/31/2022 16:55	R313064
Depth to water	*	-5.00		**7.75**	ft	1	05/31/2022 16:55	R313064
Depth to water from measuring point	*	0		**10.05**	ft	1	05/31/2022 16:55	R313064
Elevation of groundwater surface	*	0		**573.85**	ft	1	05/31/2022 16:55	R313064
Measuring Point Elevation	*	0		**583.90**	ft	1	05/31/2022 16:55	R313064
Measuring Point Height Above Land Surface	*	0		**2.30**	ft	1	05/31/2022 16:55	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**2.0**	NTU	1	05/31/2022 16:55	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.2**	°F	1	05/31/2022 16:55	R313064
SW-846 9040B								
pH, Field	*	1.00		**7.17**		1	05/31/2022 16:55	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**513**	µmhos/cm @25C	1	05/31/2022 16:55	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**354**	mg/L	1	06/02/2022 12:03	R312777
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**35**	mg/L	1	06/07/2022 14:54	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.38**	mg/L	1	06/08/2022 9:37	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**2**	mg/L	1	06/07/2022 14:54	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	06/03/2022 14:30	193267
Barium	NELAP	0.0025		**0.0345**	mg/L	1	06/03/2022 14:30	193267
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	06/03/2022 14:30	193267
Boron	NELAP	0.0200		**0.0341**	mg/L	1	06/03/2022 14:30	193267
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	06/03/2022 14:30	193267
Calcium	NELAP	0.100		**74.3**	mg/L	1	06/03/2022 14:30	193267
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:30	193267
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:30	193267
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	06/03/2022 14:30	193267
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:30	193267
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	06/03/2022 14:30	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	06/03/2022 22:45	193267
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	06/03/2022 22:45	193267
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	06/03/2022 22:45	193267
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/03/2022 10:50	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	06/28/2022 0:00	R314337
Radium-228	*	0		**See attached**	pci/L	1	06/28/2022 0:00	R314337

Client: City Water, Light & Power
Work Order: 22051753
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jul-22
Lab ID: 22051753-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 05/31/2022 14:22

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.20**	ft	1	05/31/2022 14:22	R313064
Depth to water	*	-5.00		**5.38**	ft	1	05/31/2022 14:22	R313064
Depth to water from measuring point	*	0		**7.80**	ft	1	05/31/2022 14:22	R313064
Elevation of groundwater surface	*	0		**530.02**	ft	1	05/31/2022 14:22	R313064
Measuring Point Elevation	*	0		**537.82**	ft	1	05/31/2022 14:22	R313064
Measuring Point Height Above Land Surface	*	0		**2.42**	ft	1	05/31/2022 14:22	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**5.4**	NTU	1	05/31/2022 14:22	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.2**	°F	1	05/31/2022 14:22	R313064
SW-846 9040B								
pH, Field	*	1.00		**7.11**		1	05/31/2022 14:22	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**664**	µmhos/cm @25C	1	05/31/2022 14:22	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**458**	mg/L	1	06/02/2022 12:03	R312777
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	06/07/2022 15:02	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.55**	mg/L	1	06/08/2022 9:39	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**38**	mg/L	1	06/07/2022 15:02	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	06/03/2022 14:31	193267
Barium	NELAP	0.0025		**0.141**	mg/L	1	06/03/2022 14:31	193267
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	06/03/2022 14:31	193267
Boron	NELAP	0.0200		**0.275**	mg/L	1	06/03/2022 14:31	193267
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	06/03/2022 14:31	193267
Calcium	NELAP	0.100		**66.2**	mg/L	1	06/03/2022 14:31	193267
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:31	193267
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:31	193267
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	06/03/2022 14:31	193267
Lithium	NELAP	0.0050		**0.0079**	mg/L	1	06/03/2022 14:31	193267
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	06/03/2022 14:31	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	06/03/2022 22:50	193267
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	06/03/2022 22:50	193267
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	06/03/2022 22:50	193267
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/03/2022 10:52	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	06/28/2022 0:00	R314337
Radium-228	*	0		**See attached**	pci/L	1	06/28/2022 0:00	R314337

Client: City Water, Light & Power
Work Order: 22051753
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jul-22
Lab ID: 22051753-008
Client Sample ID: AP-7
Matrix: GROUNDWATER
Collection Date: 06/01/2022 10:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**496.50**	ft	1	06/01/2022 10:19	R313064
Depth to water	*	-5.00		**7.24**	ft	1	06/01/2022 10:19	R313064
Depth to water from measuring point	*	0		**9.90**	ft	1	06/01/2022 10:19	R313064
Elevation of groundwater surface	*	0		**529.12**	ft	1	06/01/2022 10:19	R313064
Measuring Point Elevation	*	0		**539.02**	ft	1	06/01/2022 10:19	R313064
Measuring Point Height Above Land Surface	*	0		**2.66**	ft	1	06/01/2022 10:19	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**6.8**	NTU	1	06/01/2022 10:19	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.9**	°F	1	06/01/2022 10:19	R313064
SW-846 9040B								
pH, Field	*	1.00		**6.92**		1	06/01/2022 10:19	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**923**	µmhos/cm @25C	1	06/01/2022 10:19	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**480**	mg/L	1	06/02/2022 12:04	R312777
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	06/09/2022 9:39	R313062
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.56**	mg/L	1	06/08/2022 9:41	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	2		**66**	mg/L	2	06/07/2022 15:10	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**0.0468**	mg/L	1	06/03/2022 14:33	193267
Barium	NELAP	0.0025		**0.130**	mg/L	1	06/03/2022 14:33	193267
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	06/03/2022 14:33	193267
Boron	NELAP	0.0200		**0.339**	mg/L	1	06/03/2022 14:33	193267
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	06/03/2022 14:33	193267
Calcium	NELAP	0.100		**64.9**	mg/L	1	06/03/2022 14:33	193267
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:33	193267
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:33	193267
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	06/03/2022 14:33	193267
Lithium	NELAP	0.0050		**0.0079**	mg/L	1	06/03/2022 14:33	193267
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	06/03/2022 14:33	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	06/03/2022 22:56	193267
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	06/03/2022 22:56	193267
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	06/03/2022 22:56	193267
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/03/2022 10:54	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	06/29/2022 0:00	R314337
Radium-228	*	0		**See attached**	pci/L	1	06/29/2022 0:00	R314337

Client: City Water, Light & Power
Work Order: 22051753
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jul-22
Lab ID: 22051753-009
Client Sample ID: AP-8
Matrix: GROUNDWATER
Collection Date: 05/31/2022 13:57

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.60**	ft	1	05/31/2022 13:57	R313064
Depth to water	*	-5.00		**2.13**	ft	1	05/31/2022 13:57	R313064
Depth to water from measuring point	*	0		**5.03**	ft	1	05/31/2022 13:57	R313064
Elevation of groundwater surface	*	0		**532.17**	ft	1	05/31/2022 13:57	R313064
Measuring Point Elevation	*	0		**537.20**	ft	1	05/31/2022 13:57	R313064
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	05/31/2022 13:57	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.0**	NTU	1	05/31/2022 13:57	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.7**	°F	1	05/31/2022 13:57	R313064
SW-846 9040B								
pH, Field	*	1.00		**6.90**		1	05/31/2022 13:57	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**864**	µmhos/cm @25C	1	05/31/2022 13:57	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**552**	mg/L	1	06/02/2022 12:04	R312777
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	06/07/2022 15:17	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.31**	mg/L	1	06/08/2022 9:51	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**28**	mg/L	1	06/07/2022 15:18	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**0.0352**	mg/L	1	06/03/2022 14:35	193267
Barium	NELAP	0.0025		**0.356**	mg/L	1	06/03/2022 14:35	193267
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	06/03/2022 14:35	193267
Boron	NELAP	0.0200		**0.0877**	mg/L	1	06/03/2022 14:35	193267
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	06/03/2022 14:35	193267
Calcium	NELAP	0.100		**96.5**	mg/L	1	06/03/2022 14:35	193267
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:35	193267
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:35	193267
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	06/03/2022 14:35	193267
Lithium	NELAP	0.0050		**0.0065**	mg/L	1	06/03/2022 14:35	193267
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	06/03/2022 14:35	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	06/03/2022 23:40	193267
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	06/03/2022 23:40	193267
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	06/03/2022 23:40	193267
CCV recovered outside the upper control limits for Se and Tl. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/03/2022 10:56	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	06/28/2022 0:00	R314337
Radium-228	*	0		**See attached**	pci/L	1	06/28/2022 0:00	R314337

Client: City Water, Light & Power
Work Order: 22051753
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jul-22
Lab ID: 22051753-011
Client Sample ID: AP-10
Matrix: GROUNDWATER
Collection Date: 05/31/2022 13:01

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**499.43**	ft	1	05/31/2022 13:01	R313064
Depth to water	*	-5.00		**0.52**	ft	1	05/31/2022 13:01	R313064
Depth to water from measuring point	*	0		**3.62**	ft	1	05/31/2022 13:01	R313064
Elevation of groundwater surface	*	0		**533.88**	ft	1	05/31/2022 13:01	R313064
Measuring Point Elevation	*	0		**537.50**	ft	1	05/31/2022 13:01	R313064
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	05/31/2022 13:01	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**23**	NTU	1	05/31/2022 13:01	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.5**	°F	1	05/31/2022 13:01	R313064
SW-846 9040B								
pH, Field	*	1.00		**6.69**		1	05/31/2022 13:01	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1100**	µmhos/cm @25C	1	05/31/2022 13:01	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**752**	mg/L	1	06/03/2022 8:44	R312832
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**86**	mg/L	5	06/07/2022 15:55	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.35**	mg/L	1	06/08/2022 9:55	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**29**	mg/L	1	06/07/2022 15:50	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	06/03/2022 14:52	193267
Barium	NELAP	0.0025		**0.571**	mg/L	1	06/03/2022 14:52	193267
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	06/03/2022 14:52	193267
Boron	NELAP	0.0200		**3.58**	mg/L	1	06/03/2022 14:52	193267
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	06/03/2022 14:52	193267
Calcium	NELAP	0.100		**141**	mg/L	1	06/03/2022 14:52	193267
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:52	193267
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:52	193267
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	06/03/2022 14:52	193267
Lithium	NELAP	0.0050		**0.0100**	mg/L	1	06/03/2022 14:52	193267
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	06/03/2022 14:52	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	06/03/2022 23:45	193267
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	06/03/2022 23:45	193267
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	06/03/2022 23:45	193267
CCV recovered outside the upper control limits for Se and Tl. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/03/2022 11:01	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	06/28/2022 0:00	R314337
Radium-228	*	0		**See attached**	pci/L	1	06/28/2022 0:00	R314337

Client: City Water, Light & Power
Work Order: 22051753
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Jul-22
Lab ID: 22051753-015
Client Sample ID: AP-14
Matrix: GROUNDWATER
Collection Date: 05/31/2022 15:43

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**508.40**	ft	1	05/31/2022 15:43	R313064
Depth to water	*	-5.00		**-1.00**	ft	1	05/31/2022 15:43	R313064
Depth to water from measuring point	*	0		**1.80**	ft	1	05/31/2022 15:43	R313064
Elevation of groundwater surface	*	0		**537.80**	ft	1	05/31/2022 15:43	R313064
Measuring Point Elevation	*	0		**539.60**	ft	1	05/31/2022 15:43	R313064
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	05/31/2022 15:43	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**18**	NTU	1	05/31/2022 15:43	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.1**	°F	1	05/31/2022 15:43	R313064
SW-846 9040B								
pH, Field	*	1.00		**6.95**		1	05/31/2022 15:43	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1400**	µmhos/cm @25C	1	05/31/2022 15:43	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1340**	mg/L	1	06/03/2022 8:45	R312832
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**681**	mg/L	20	06/07/2022 16:43	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.30**	mg/L	1	06/08/2022 10:03	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	2		**52**	mg/L	2	06/07/2022 16:38	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	06/03/2022 14:59	193267
Barium	NELAP	0.0025		**0.0343**	mg/L	1	06/03/2022 14:59	193267
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	06/03/2022 14:59	193267
Boron	NELAP	0.400		**23.3**	mg/L	20	06/06/2022 19:55	193267
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	06/03/2022 14:59	193267
Calcium	NELAP	0.100		**215**	mg/L	1	06/03/2022 14:59	193267
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:59	193267
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	06/03/2022 14:59	193267
Lead	NELAP	0.0150		**0.0189**	mg/L	1	06/06/2022 17:58	193267
Lithium	NELAP	0.0050		**0.0066**	mg/L	1	06/03/2022 14:59	193267
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	06/03/2022 14:59	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	06/04/2022 1:03	193267
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	06/04/2022 1:03	193267
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	06/04/2022 1:03	193267
CCV recovered outside the upper control limits Se and Tl. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	06/03/2022 11:14	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	07/11/2022 0:00	R314337
Radium-228	*	0		**See attached**	pci/L	1	07/11/2022 0:00	R314337

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 22051753
Report Date: 13-Jul-22

Carrier: Joe Riley

Received By: EAH

Completed by: Payton Yoch
On: 02-Jun-22

Reviewed by: Shelly A. Hennessy
On: 06-Jun-22

Pages to follow: Chain of custody 2 Extra pages included 43

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 2.0
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

pH strip 78198 - pyoch - 6/2/2022 8:57:41 AM

Additional Nitric Acid (82107) was needed for all 2L bottles (Radium 226-228) upon arrival at the laboratory. - pyoch - 6/2/2022 8:57:57 AM

Print PDF

CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 22051753

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☑ No Permit on file

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 2.0 °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY LTGS
LAB NOTES: pH/2/198, Added HNO3 (82107) to all 2 liters, CET 6-6- 6-2-22

Client Comments: TE CET 6-6-22
*elevations, pH, conductivity, temperature
**Sb Se Tl (ICPMS) As Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER: Ash Pond Monitoring Wells
SAMPLE COLLECTOR'S NAME: J. RILEY

RESULTS REQUESTED: ☑ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)
BILLING INSTRUCTIONS:

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl/F/SO4/TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
22051753-001	RW-3	06/01/22 1345	Groundwater	1	3								✔	✔	✔	✔	✔	✔
002	AP-1	05/31/22 1330	Groundwater	1	3								✔	✔	✔	✔	✔	✔
003	AP-2	1212	Groundwater	1	3								✔	✔	✔	✔	✔	✔
004	AP-3	1147	Groundwater	1	3								✔	✔	✔	✔	✔	✔
005	AP-4	1628	Groundwater	1	3								✔	✔	✔	✔	✔	✔
006	AP-5	1655	Groundwater	1	3								✔	✔	✔	✔	✔	✔
007	AP-6	1422	Groundwater	1	3								✔	✔	✔	✔	✔	✔
008	AP-7	06/01/22 1019	Groundwater	1	3								✔	✔	✔	✔	✔	✔
009	AP-8	05/31/22 1357	Groundwater	1	3								✔	✔	✔	✔	✔	✔
010	AP-9	06/01/22 1047	Groundwater	1	3								✔	✔	✔	✔	✔	✔
011	AP-10	05/31/22 1301	Groundwater	1	3								✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
	06/02/22 0733		6/2/22 0733

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

6/7/22

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 22051753

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb Se Tl (ICPMS) As Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
22051753-012	AP-11	06/01/22 1302	Groundwater	1	3								✔	✔	✔	✔	✔	✔
013	AP-12	06/01/22 1234	Groundwater	1	3								✔	✔	✔	✔	✔	✔
014	AP-13	06/01/22 1204	Groundwater	1	3								✔	✔	✔	✔	✔	✔
015	AP-14	05/31/22 1543	Groundwater	1	3								✔	✔	✔	✔	✔	✔
			Groundwater										✔	✔	✔	✔	✔	✔
			Groundwater										✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
	06/02/22 0733		6/2/22 0733

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

July 12, 2022

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 22051753

Order No.: 22060560

Dear Shelly Hennessy:

Summit Environmental Technologies, Inc. received 15 sample(s) on 6/8/2022 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 011, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Case Narrative

WO#: **22060560**
Date: **7/12/2022**

CLIENT: TEKLAB Inc,
Project: 22051753

WorkOrder Narrative:
22060560: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Run Comments:
145867: 22060887-001A is 22060877-001a in attached spreadsheet

Analytical Sequence Sample Notes:
22060560-013A Radium-228_NPW(904.0): Sample and Sample Duplicate exhibited high RPD for Radium-228 due to possible sample matrix interference.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, In
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-44
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **22060560**
Date: **7/12/2022**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Workorder Sample Summary

WO#: **22060560**
12-Jul-22

CLIENT: TEKLAB Inc,
Project: 22051753

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
22060560-001	22051753-001		6/1/2022 1:45:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-002	22051753-002		5/31/2022 1:30:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-003	22051753-003		5/31/2022 12:12:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-004	22051753-004		5/31/2022 11:47:00 AM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-005	22051753-005		5/31/2022 4:28:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-006	22051753-006		5/31/2022 4:55:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-007	22051753-007		5/31/2022 2:22:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-008	22051753-008		6/1/2022 10:19:00 AM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-009	22051753-009		5/31/2022 1:57:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-010	22051753-010		6/1/2022 10:47:00 AM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-011	22051753-011		5/31/2022 1:01:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-012	22051753-012		6/1/2022 1:02:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-013	22051753-013		6/1/2022 12:34:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-014	22051753-014		6/1/2022 12:04:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-015	22051753-015		5/31/2022 3:43:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

DATES REPORT

WO#: **22060560**

12-Jul-22

Client: TEKLAB Inc,

Project: 22051753

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
22060560-001A	22051753-001	6/1/2022 1:45:00 PM	Non-Potable Water	Radium-226 (EPA 903.0)		6/15/2022 2:39:00 PM	6/21/2022 9:38:00 AM
				Radium-228 (EPA 904.0)		6/15/2022 2:39:00 PM	6/20/2022 2:31:00 PM
22060560-002A	22051753-002	5/31/2022 1:30:00 PM		Radium-226 (EPA 903.0)		6/15/2022 2:39:00 PM	6/21/2022 9:38:00 AM
				Radium-228 (EPA 904.0)		6/15/2022 2:39:00 PM	6/20/2022 2:31:00 PM
22060560-003A	22051753-003	5/31/2022 12:12:00 PM		Radium-226 (EPA 903.0)		6/15/2022 2:39:00 PM	6/21/2022 9:38:00 AM
				Radium-228 (EPA 904.0)		6/15/2022 2:39:00 PM	6/20/2022 2:31:00 PM
22060560-004A	22051753-004	5/31/2022 11:47:00 AM		Radium-226 (EPA 903.0)		6/15/2022 2:39:00 PM	6/21/2022 9:38:00 AM
				Radium-228 (EPA 904.0)		6/15/2022 2:39:00 PM	6/20/2022 2:31:00 PM
22060560-005A	22051753-005	5/31/2022 4:28:00 PM		Radium-226 (EPA 903.0)		6/20/2022 9:25:00 AM	6/29/2022 9:21:00 AM
				Radium-228 (EPA 904.0)		6/20/2022 9:25:00 AM	6/28/2022 2:04:00 PM
22060560-006A	22051753-006	5/31/2022 4:55:00 PM		Radium-226 (EPA 903.0)		6/20/2022 9:25:00 AM	6/29/2022 9:21:00 AM
				Radium-228 (EPA 904.0)		6/20/2022 9:25:00 AM	6/28/2022 2:04:00 PM
22060560-007A	22051753-007	5/31/2022 2:22:00 PM		Radium-226 (EPA 903.0)		6/20/2022 9:25:00 AM	6/29/2022 9:21:00 AM
				Radium-228 (EPA 904.0)		6/20/2022 9:25:00 AM	6/28/2022 2:04:00 PM
22060560-008A	22051753-008	6/1/2022 10:19:00 AM		Radium-226 (EPA 903.0)		6/20/2022 9:25:00 AM	6/29/2022 9:21:00 AM
				Radium-228 (EPA 904.0)		7/5/2022 2:13:00 PM	7/8/2022 3:48:00 PM
				Radium-228 (EPA 904.0)		6/20/2022 9:25:00 AM	6/28/2022 2:04:00 PM
22060560-009A	22051753-009	5/31/2022 1:57:00 PM		Radium-226 (EPA 903.0)		6/20/2022 9:25:00 AM	6/29/2022 9:21:00 AM
				Radium-228 (EPA 904.0)		6/20/2022 9:25:00 AM	6/28/2022 2:04:00 PM
22060560-010A	22051753-010	6/1/2022 10:47:00 AM		Radium-226 (EPA 903.0)		6/20/2022 9:25:00 AM	6/29/2022 9:21:00 AM
				Radium-228 (EPA 904.0)		6/20/2022 9:25:00 AM	6/28/2022 2:04:00 PM
22060560-011A	22051753-011	5/31/2022 1:01:00 PM		Radium-226 (EPA 903.0)		6/20/2022 9:25:00 AM	6/29/2022 9:21:00 AM
				Radium-228 (EPA 904.0)		6/20/2022 9:25:00 AM	6/28/2022 2:04:00 PM

Original

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DATES REPORT

WO#: **22060560**

12-Jul-22

Client: TEKLAB Inc,

Project: 22051753

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
22060560-012A	22051753-012	6/1/2022 1:02:00 PM	Non-Potable Water	Radium-226 (EPA 903.0)		6/20/2022 9:25:00 AM	6/29/2022 9:21:00 AM
				Radium-228 (EPA 904.0)		6/20/2022 9:25:00 AM	6/28/2022 2:04:00 PM
				Radium-228 (EPA 904.0)		7/5/2022 2:13:00 PM	7/8/2022 3:48:00 PM
22060560-013A	22051753-013	6/1/2022 12:34:00 PM		Radium-226 (EPA 903.0)		7/5/2022 11:10:00 AM	7/12/2022 10:23:00 AM
				Radium-228 (EPA 904.0)		7/5/2022 11:10:00 AM	7/11/2022 3:26:00 PM
22060560-014A	22051753-014	6/1/2022 12:04:00 PM		Radium-226 (EPA 903.0)		7/5/2022 11:10:00 AM	7/12/2022 10:23:00 AM
				Radium-228 (EPA 904.0)		7/5/2022 11:10:00 AM	7/11/2022 3:26:00 PM
22060560-015A	22051753-015	5/31/2022 3:43:00 PM		Radium-226 (EPA 903.0)		7/5/2022 11:10:00 AM	7/12/2022 10:23:00 AM
				Radium-228 (EPA 904.0)		7/5/2022 11:10:00 AM	7/11/2022 3:26:00 PM

Original

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Analytical Report

(consolidated)

WO#: **22060560**

Date Reported: **7/12/2022**

CLIENT: TEKLAB Inc,
Project: 22051753
Lab ID: 22060560-001
Client Sample ID: 22051753-001

Collection Date: 6/1/2022 1:45:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.08	1	6/21/2022 9:38:00 AM
Yield	1.00					1	6/21/2022 9:38:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.47	1	6/20/2022 2:31:00 PM
Yield	1.00					1	6/20/2022 2:31:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

Summit Environmental Technologies, Inc.
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Analytical Report

(consolidated)

WO#: **22060560**

Date Reported: **7/12/2022**

CLIENT: TEKLAB Inc,
Collection Date: 5/31/2022 1:30:00 PM
Project: 22051753
Lab ID: 22060560-002
Matrix: NON-POTABLE WATER
Client Sample ID: 22051753-002

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.08	1	6/21/2022 9:38:00 AM
Yield	1.00					1	6/21/2022 9:38:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.45	1	6/20/2022 2:31:00 PM
Yield	1.00					1	6/20/2022 2:31:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22060560**

Date Reported: **7/12/2022**

CLIENT: TEKLAB Inc,
Project: 22051753
Lab ID: 22060560-003
Client Sample ID: 22051753-003

Collection Date: 5/31/2022 12:12:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.12	1	6/21/2022 9:38:00 AM
Yield	0.970					1	6/21/2022 9:38:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.43	1	6/20/2022 2:31:00 PM
Yield	0.940					1	6/20/2022 2:31:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22060560**

Date Reported: **7/12/2022**

CLIENT: TEKLAB Inc,
Project: 22051753
Lab ID: 22060560-004
Client Sample ID: 22051753-004

Collection Date: 5/31/2022 11:47:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.1	1	6/21/2022 9:38:00 AM
Yield	1.00					1	6/21/2022 9:38:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.56	1	6/20/2022 2:31:00 PM
Yield	1.00					1	6/20/2022 2:31:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22060560**

Date Reported: **7/12/2022**

CLIENT: TEKLAB Inc,
Collection Date: 5/31/2022 4:28:00 PM
Project: 22051753
Lab ID: 22060560-005
Matrix: NON-POTABLE WATER
Client Sample ID: 22051753-005

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.19	1	6/29/2022 9:21:00 AM
Yield	1.00					1	6/29/2022 9:21:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.49	1	6/28/2022 2:04:00 PM
Yield	1.00					1	6/28/2022 2:04:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22060560**

Date Reported: **7/12/2022**

CLIENT: TEKLAB Inc,
Project: 22051753
Lab ID: 22060560-006
Client Sample ID: 22051753-006

Collection Date: 5/31/2022 4:55:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.1	1	6/29/2022 9:21:00 AM
Yield	1.00					1	6/29/2022 9:21:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	1.45	1.00		pCi/L	± 0.6	1	6/28/2022 2:04:00 PM
Yield	1.00					1	6/28/2022 2:04:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22060560**

Date Reported: **7/12/2022**

CLIENT: TEKLAB Inc,
Collection Date: 5/31/2022 2:22:00 PM
Project: 22051753
Lab ID: 22060560-007
Matrix: NON-POTABLE WATER
Client Sample ID: 22051753-007

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.14	1	6/29/2022 9:21:00 AM
Yield	1.00					1	6/29/2022 9:21:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	1.20	1.00		pCi/L	± 0.55	1	6/28/2022 2:04:00 PM
Yield	1.00					1	6/28/2022 2:04:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22060560**

Date Reported: **7/12/2022**

CLIENT: TEKLAB Inc,
Project: 22051753
Lab ID: 22060560-008
Client Sample ID: 22051753-008

Collection Date: 6/1/2022 10:19:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.14	1	6/29/2022 9:21:00 AM
Yield	1.00					1	6/29/2022 9:21:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.68	1	7/8/2022 3:48:00 PM
Yield	1.00					1	7/8/2022 3:48:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22060560**

Date Reported: **7/12/2022**

CLIENT: TEKLAB Inc,
Project: 22051753
Lab ID: 22060560-009
Client Sample ID: 22051753-009

Collection Date: 5/31/2022 1:57:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.2	1	6/29/2022 9:21:00 AM
Yield	1.00					1	6/29/2022 9:21:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	1.16	1.00		pCi/L	± 0.61	1	6/28/2022 2:04:00 PM
Yield	0.980					1	6/28/2022 2:04:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22060560**

Date Reported: **7/12/2022**

CLIENT: TEKLAB Inc,
Project: 22051753
Lab ID: 22060560-011
Client Sample ID: 22051753-011

Collection Date: 5/31/2022 1:01:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.21	1	6/29/2022 9:21:00 AM
Yield	1.00					1	6/29/2022 9:21:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.55	1	6/28/2022 2:04:00 PM
Yield	0.930					1	6/28/2022 2:04:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22060560**

Date Reported: **7/12/2022**

CLIENT: TEKLAB Inc,
Project: 22051753
Lab ID: 22060560-015
Client Sample ID: 22051753-015

Collection Date: 5/31/2022 3:43:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.09	1	7/12/2022 10:23:00 AM
Yield	1.00					1	7/12/2022 10:23:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	1.35	1.00		pCi/L	± 0.6	1	7/11/2022 3:26:00 PM
Yield	1.00					1	7/11/2022 3:26:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

Summit Environmental Technologies, Inc.
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QC SUMMARY REPORT

WO#: **22060560**

12-Jul-22

Client: TEKLAB Inc,
Project: 22051753 **BatchID:** **57497**

Sample ID: **MB-57497**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **6/15/2022**	RunNo: **145859**
Client ID: **PBW**	Batch ID: **57497**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/20/2022**	SeqNo: **3856765**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-57497**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **6/15/2022**	RunNo: **145859**
Client ID: **LCSW**	Batch ID: **57497**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/20/2022**	SeqNo: **3856766**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.01	1.00	5.000	0	80.2	70	130				
Yield	1.00			0	0						

Sample ID: **LCSD-57497**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **6/15/2022**	RunNo: **145859**
Client ID: **LCSS02**	Batch ID: **57497**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/20/2022**	SeqNo: **3856767**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.82	1.00	5.000	0	76.4	70	130	4.010	4.85	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **22060560**

12-Jul-22

Client: TEKLAB Inc,
Project: 22051753 **BatchID:** **57497**

Sample ID: **RLC-57497**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **6/15/2022**	RunNo: **145859**
Client ID: **BatchQC**	Batch ID: **57497**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/20/2022**	SeqNo: **3856769**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.41	1.00	1.000	0	141	50	150				
Yield	1.00			0	0						

Sample ID: **RLCD-57497**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **6/15/2022**	RunNo: **145859**
Client ID: **BatchQC**	Batch ID: **57497**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/20/2022**	SeqNo: **3856770**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00	1.000	0	90.0	50	150				
Yield	1.00			0	0						

Sample ID: **22060815-001ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **6/15/2022**	RunNo: **145859**
Client ID: **BatchQC**	Batch ID: **57497**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/20/2022**	SeqNo: **3856777**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
3310 Win St.
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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22060560**
12-Jul-22

Client: TEKLAB Inc,
Project: 22051753 **BatchID:** **57497**

Sample ID: **22060655-001AMS**	SampType: **MS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **6/15/2022**	RunNo: **145859**
Client ID: **BatchQC**	Batch ID: **57497**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/20/2022**	SeqNo: **3856778**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	6.31	1.00	5.000	1.750	91.2	70	130				
Yield	1.00			1.000	0						

Sample ID: **22060818-001ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **6/15/2022**	RunNo: **145859**
Client ID: **BatchQC**	Batch ID: **57497**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/20/2022**	SeqNo: **3856781**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **22060560**

12-Jul-22

Client: TEKLAB Inc,
Project: 22051753 **BatchID:** **57497**

Sample ID: **MB-57497** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **6/15/2022** RunNo: **145867**
Client ID: **PBW** Batch ID: **57497** TestNo: **E903.0** **E903-904** Analysis Date: **6/21/2022** SeqNo: **3856875**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-57497** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **6/15/2022** RunNo: **145867**
Client ID: **LCSW** Batch ID: **57497** TestNo: **E903.0** **E903-904** Analysis Date: **6/21/2022** SeqNo: **3856876**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.93	1.00	5.000	0	119	70	130				

Sample ID: **LCSD-57497** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **6/15/2022** RunNo: **145867**
Client ID: **LCSS02** Batch ID: **57497** TestNo: **E903.0** **E903-904** Analysis Date: **6/21/2022** SeqNo: **3856877**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.99	1.00	5.000	0	99.8	70	130	5.930	17.2	20	

Sample ID: **RLC-57497** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **6/15/2022** RunNo: **145867**
Client ID: **BatchQC** Batch ID: **57497** TestNo: **E903.0** **E903-904** Analysis Date: **6/21/2022** SeqNo: **3856879**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **22060560**

12-Jul-22

Client: TEKLAB Inc,
Project: 22051753 **BatchID:** **57497**

Sample ID: **RLC-57497** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **6/15/2022** RunNo: **145867**
Client ID: **BatchQC** Batch ID: **57497** TestNo: **E903.0** **E903-904** Analysis Date: **6/21/2022** SeqNo: **3856879**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00	1.000	0	91.0	50	150				

Sample ID: **RLCD-57497** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **6/15/2022** RunNo: **145867**
Client ID: **BatchQC** Batch ID: **57497** TestNo: **E903.0** **E903-904** Analysis Date: **6/21/2022** SeqNo: **3856880**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00	1.000	0	64.0	50	150				

Sample ID: **22060655-001AMS** SampType: **MS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **6/15/2022** RunNo: **145867**
Client ID: **BatchQC** Batch ID: **57497** TestNo: **E903.0** **E903-904** Analysis Date: **6/21/2022** SeqNo: **3856881**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.99	1.00	5.000	0	99.8	70	130				

Sample ID: **22060815-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **6/15/2022** RunNo: **145867**
Client ID: **BatchQC** Batch ID: **57497** TestNo: **E903.0** **E903-904** Analysis Date: **6/21/2022** SeqNo: **3856886**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	R

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **22060560**

12-Jul-22

Client: TEKLAB Inc,
Project: 22051753 **BatchID:** **57497**

Sample ID: **22060815-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **6/15/2022**	RunNo: **145867**
Client ID: **BatchQC**	Batch ID: **57497**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/21/2022**	SeqNo: **3856886**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Yield	1.00							1.000	0	0	

Sample ID: **22060818-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **6/15/2022**	RunNo: **145867**
Client ID: **BatchQC**	Batch ID: **57497**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/21/2022**	SeqNo: **3856890**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **22060560**

12-Jul-22

Client: TEKLAB Inc,
Project: 22051753 **BatchID:** **57568**

Sample ID: **MB-57568** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **6/20/2022** RunNo: **146400**
Client ID: **PBW** Batch ID: **57568** TestNo: **E904.0** **E903-904** Analysis Date: **6/28/2022** SeqNo: **3872590**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-57568** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **6/20/2022** RunNo: **146400**
Client ID: **LCSW** Batch ID: **57568** TestNo: **E904.0** **E903-904** Analysis Date: **6/28/2022** SeqNo: **3872591**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	5.51	1.00	5.000	0	110	70	130				QLR
Yield	1.00			0	0						

Sample ID: **LCSD-57568** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **6/20/2022** RunNo: **146400**
Client ID: **LCSS02** Batch ID: **57568** TestNo: **E904.0** **E903-904** Analysis Date: **6/28/2022** SeqNo: **3872592**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.83	1.00	5.000	0	76.6	70	130	5.510	36.0	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **22060560**

12-Jul-22

Client: TEKLAB Inc,
Project: 22051753 **BatchID:** **57568**

Sample ID: **RLC-57568** SampType: **RLC** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **6/20/2022** RunNo: **146400**
Client ID: **BatchQC** Batch ID: **57568** TestNo: **E904.0** **E903-904** Analysis Date: **6/28/2022** SeqNo: **3872594**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00	1.000	0	68.0	50	150				
Yield	1.00			0	0						

Sample ID: **22060953-001AMS** SampType: **MS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **6/20/2022** RunNo: **146400**
Client ID: **BatchQC** Batch ID: **57568** TestNo: **E904.0** **E903-904** Analysis Date: **6/28/2022** SeqNo: **3872596**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.81	1.00	5.000	0	76.2	70	130				
Yield	1.00			1.000	0						

Sample ID: **22061131-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **6/20/2022** RunNo: **146400**
Client ID: **BatchQC** Batch ID: **57568** TestNo: **E904.0** **E903-904** Analysis Date: **6/28/2022** SeqNo: **3872599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **22060560**

12-Jul-22

Client: TEKLAB Inc,
Project: 22051753 **BatchID:** **57568**

Sample ID: **22061131-002ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **6/20/2022** RunNo: **146400**
Client ID: **BatchQC** Batch ID: **57568** TestNo: **E904.0** **E903-904** Analysis Date: **6/28/2022** SeqNo: **3872602**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.56	1.00		0	0			1.510	3.26	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **22060560**

12-Jul-22

Client: TEKLAB Inc,
Project: 22051753 **BatchID:** **57568**

Sample ID: **MB-57568** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **6/20/2022** RunNo: **146405**
Client ID: **PBW** Batch ID: **57568** TestNo: **E903.0** **E903-904** Analysis Date: **6/29/2022** SeqNo: **3872696**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-57568** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **6/20/2022** RunNo: **146405**
Client ID: **LCSW** Batch ID: **57568** TestNo: **E903.0** **E903-904** Analysis Date: **6/29/2022** SeqNo: **3872697**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.31	1.00	5.000	0	106	70	130				

Sample ID: **LCSD-57568** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **6/20/2022** RunNo: **146405**
Client ID: **LCSS02** Batch ID: **57568** TestNo: **E903.0** **E903-904** Analysis Date: **6/29/2022** SeqNo: **3872698**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	6.39	1.00	5.000	0	128	70	130	5.310	18.5	20	

Sample ID: **RLC-57568** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **6/20/2022** RunNo: **146405**
Client ID: **BatchQC** Batch ID: **57568** TestNo: **E903.0** **E903-904** Analysis Date: **6/29/2022** SeqNo: **3872700**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **22060560**

12-Jul-22

Client: TEKLAB Inc,
Project: 22051753 **BatchID:** **57568**

Sample ID: **RLC-57568**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **6/20/2022**	RunNo: **146405**
Client ID: **BatchQC**	Batch ID: **57568**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/29/2022**	SeqNo: **3872700**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00	1.000	0	93.0	50	150				

Sample ID: **RLCD-57568**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **6/20/2022**	RunNo: **146405**
Client ID: **BatchQC**	Batch ID: **57568**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/29/2022**	SeqNo: **3872701**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.07	1.00	1.000	0	107	50	150				

Sample ID: **22060953-001AMS**	SampType: **MS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **6/20/2022**	RunNo: **146405**
Client ID: **BatchQC**	Batch ID: **57568**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/29/2022**	SeqNo: **3875994**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.07	1.00	5.000	0	101	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **22060560**

12-Jul-22

Client: TEKLAB Inc,
Project: 22051753 **BatchID:** **57915**

Sample ID: **22060560-015AMS** SampType: **MS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/5/2022** RunNo: **146893**
Client ID: **22051753-015** Batch ID: **57915** TestNo: **E904.0** **E903-904** Analysis Date: **7/11/2022** SeqNo: **3890091**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	6.34	1.00	5.000	1.350	99.8	70	130				
Yield	1.00			1.000	0						

Sample ID: **22060560-013ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/5/2022** RunNo: **146893**
Client ID: **22051753-013** Batch ID: **57915** TestNo: **E904.0** **E903-904** Analysis Date: **7/11/2022** SeqNo: **3890098**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			1.460	200	30	R
Yield	1.00			0	0			1.000	0		

Sample ID: **22060560-014ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/5/2022** RunNo: **146893**
Client ID: **22051753-014** Batch ID: **57915** TestNo: **E904.0** **E903-904** Analysis Date: **7/11/2022** SeqNo: **3890100**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	30	
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **22060560**

12-Jul-22

Client: TEKLAB Inc,
Project: 22051753 **BatchID:** **57915**

Sample ID: **MB-57915** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/5/2022** RunNo: **146893**
Client ID: **PBW** Batch ID: **57915** TestNo: **E904.0** **E903-904** Analysis Date: **7/11/2022** SeqNo: **3890085**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-57915** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/5/2022** RunNo: **146893**
Client ID: **LCSW** Batch ID: **57915** TestNo: **E904.0** **E903-904** Analysis Date: **7/11/2022** SeqNo: **3890086**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.90	1.00	5.000	0	98.0	70	130				QLR
Yield	1.00			0	0						

Sample ID: **LCSD-57915** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/5/2022** RunNo: **146893**
Client ID: **LCSS02** Batch ID: **57915** TestNo: **E904.0** **E903-904** Analysis Date: **7/11/2022** SeqNo: **3890087**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	6.04	1.00	5.000	0	121	70	130	4.900	20.8	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22060560**
12-Jul-22

Client: TEKLAB Inc,
Project: 22051753 **BatchID:** **57915**

Sample ID: **RLC-57915** SampType: **RLC** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/5/2022** RunNo: **146893**
Client ID: **BatchQC** Batch ID: **57915** TestNo: **E904.0** **E903-904** Analysis Date: **7/11/2022** SeqNo: **3890089**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00	1.000	0	86.0	50	150				
Yield	1.00			0	0						

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22060560**

12-Jul-22

Client: TEKLAB Inc,
Project: 22051753 **BatchID:** **57915**

Sample ID: **22060560-015AMS** SampType: **MS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/5/2022** RunNo: **146899**
Client ID: **22051753-015** Batch ID: **57915** TestNo: **E903.0** **E903-904** Analysis Date: **7/12/2022** SeqNo: **3890536**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.33	1.00	5.000	0	86.6	70	130				

Sample ID: **22060560-013ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/5/2022** RunNo: **146899**
Client ID: **22051753-013** Batch ID: **57915** TestNo: **E903.0** **E903-904** Analysis Date: **7/12/2022** SeqNo: **3890543**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	1.00							1.000	0	0	

Sample ID: **22060560-014ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/5/2022** RunNo: **146899**
Client ID: **22051753-014** Batch ID: **57915** TestNo: **E903.0** **E903-904** Analysis Date: **7/12/2022** SeqNo: **3890545**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	1.00							1.000	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22060560**

12-Jul-22

Client: TEKLAB Inc,
Project: 22051753 **BatchID:** **57915**

Sample ID: **MB-57915** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/5/2022** RunNo: **146899**
Client ID: **PBW** Batch ID: **57915** TestNo: **E903.0** **E903-904** Analysis Date: **7/12/2022** SeqNo: **3890530**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-57915** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/5/2022** RunNo: **146899**
Client ID: **LCSW** Batch ID: **57915** TestNo: **E903.0** **E903-904** Analysis Date: **7/12/2022** SeqNo: **3890531**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.04	1.00	5.000	0	101	70	130				

Sample ID: **LCSD-57915** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/5/2022** RunNo: **146899**
Client ID: **LCSS02** Batch ID: **57915** TestNo: **E903.0** **E903-904** Analysis Date: **7/12/2022** SeqNo: **3890532**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.44	1.00	5.000	0	109	70	130	5.040	7.63	20	

Sample ID: **RLC-57915** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/5/2022** RunNo: **146899**
Client ID: **BatchQC** Batch ID: **57915** TestNo: **E903.0** **E903-904** Analysis Date: **7/12/2022** SeqNo: **3890534**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22060560**

12-Jul-22

Client: TEKLAB Inc,
Project: 22051753 **BatchID:** **57915**

Sample ID: **RLC-57915**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **7/5/2022**	RunNo: **146899**
Client ID: **BatchQC**	Batch ID: **57915**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/12/2022**	SeqNo: **3890534**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.20	1.00	1.000	0	120	50	150				

Sample ID: **RLCD-57915**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **7/5/2022**	RunNo: **146899**
Client ID: **BatchQC**	Batch ID: **57915**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/12/2022**	SeqNo: **3890535**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.14	1.00	1.000	0	114	50	150				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22060560**

12-Jul-22

Client: TEKLAB Inc,
Project: 22051753 **BatchID:** **57916**

Sample ID: **MB-57916** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/5/2022** RunNo: **146844**
Client ID: **PBW** Batch ID: **57916** TestNo: **E904.0** **E903-904** Analysis Date: **7/8/2022** SeqNo: **3888527**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-57916** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/5/2022** RunNo: **146844**
Client ID: **LCSW** Batch ID: **57916** TestNo: **E904.0** **E903-904** Analysis Date: **7/8/2022** SeqNo: **3888528**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.67	1.00	5.000	0	73.4	70	130				
Yield	1.00			0	0						

Sample ID: **LCSD-57916** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/5/2022** RunNo: **146844**
Client ID: **LCSS02** Batch ID: **57916** TestNo: **E904.0** **E903-904** Analysis Date: **7/8/2022** SeqNo: **3888529**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.81	1.00	5.000	0	76.2	70	130	3.670	3.74	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22060560**

12-Jul-22

Client: TEKLAB Inc,
Project: 22051753 **BatchID:** **57916**

Sample ID: **RLC-57916** SampType: **RLC** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/5/2022** RunNo: **146844**
Client ID: **BatchQC** Batch ID: **57916** TestNo: **E904.0** **E903-904** Analysis Date: **7/8/2022** SeqNo: **3888531**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00	1.000	0	50.0	50	150				
Yield	1.00			0	0						

Sample ID: **22060954-001AMS** SampType: **MS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/5/2022** RunNo: **146844**
Client ID: **BatchQC** Batch ID: **57916** TestNo: **E904.0** **E903-904** Analysis Date: **7/8/2022** SeqNo: **3888533**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	5.00	1.00	5.000	1.000	80.0	70	130				
Yield	1.00			1.000	0						

Sample ID: **22060957-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/5/2022** RunNo: **146844**
Client ID: **BatchQC** Batch ID: **57916** TestNo: **E904.0** **E903-904** Analysis Date: **7/8/2022** SeqNo: **3888538**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

22060560

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: Sampler: Joseph Riley QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 on your standard turn around time.
Samples collected from an IL site.
Batch QC is required for all analyses requested. EDD requested..

Project# 22051753

Contact: Shelly Hennessy Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT Billing/PO: 32888 Phone: (618) 344-1004

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Any changes to analysis/methods must be approved by Teklab, Inc.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228	PH
CPM 13, 17	22051753-001	6/1/22 1345	HNO3	Groundwater	☑	1, 1
20, 23	22051753-002	5/31/22 1330	HNO3	Groundwater	☑	1, 1
27, 25	22051753-003	5/31/22 1212	HNO3	Groundwater	☑	1, 1
23, 28	22051753-004	5/31/22 1147	HNO3	Groundwater	☑	1, 1
20, 26	22051753-005	5/31/22 1628	HNO3	Groundwater	☑	1, 1
16, 21	22051753-006	5/31/22 1655	HNO3	Groundwater	☑	1, 1
16, 18	22051753-007	5/31/22 1422	HNO3	Groundwater	☑	1, 1
33, 39	22051753-008	6/1/22 1019	HNO3	Groundwater	☑	1, 1
23, 28	22051753-009	5/31/22 1357	HNO3	Groundwater	☑	1, 1
20, 21	22051753-010	6/1/22 1047	HNO3	Groundwater	☑	1, 1
37, 41	22051753-011	5/31/22 1301	HNO3	Groundwater	☑	1, 1

*Relinquished By	Date/Time	Received By	Date/Time
[signature]	(FedEx) 6/3/22 1600	[signature]	06/08/22 1600

19.7-0.1=19.6 Fedex Cooler 1600 2 cont pc Sample

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA
3/2/2016

22060560

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: Sampler: Joseph Riley QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 on your standard turn around time.
Samples collected from an IL site.
Batch QC is required for all analyses requested. EDD requested..

Project# 22051753

Contact: Shelly Hennessy Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT Billing/PO: 32888 Phone: (618) 344-1004

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Any changes to analysis/methods must be approved by Teklab, Inc.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228	
CPM 37,40	22051753-012	6/1/22 1302	HNO3	Groundwater	☑	pH 1,1
16,20	22051753-013	6/1/22 1234	HNO3	Groundwater	☑	1,1
23,29	22051753-014	6/1/22 1204	HNO3	Groundwater	☑	1,1
16,19	22051753-015	5/31/22 1543	HNO3	Groundwater	☑	✓ 1,1
			HNO3	Groundwater	☑	
			HNO3	Groundwater	☑	
			HNO3	Groundwater	☑	
			HNO3	Groundwater	☑	
			HNO3	Groundwater	☑	
			HNO3	Groundwater	☑	
			HNO3	Groundwater	☑	

*Relinquished By	Date/Time	Received By	Date/Time
Elizabeth Rothley (Teklab)	6/3/22 1600		06/08/22 1600

19.7-0.1 = 19.6 Fedex cooler 1600 2 cont per sample

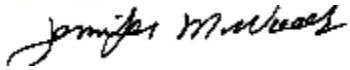
Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights.
Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA
3/2/2016

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **22060560** RcptNo: **1**

Logged by:	**Anthony W. Britton**	**6/8/2022 4:00:00 PM**	
Completed By:	**Anthony W. Britton**	**6/9/2022 9:11:31 AM**	
Reviewed By:	**Jennifer Woolf**	**6/10/2022 6:39:39 PM**	

Chain of Custody

1.	Were seals intact?	Yes ☑	No ☐	Not Present ☐
2.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3.	How was the sample delivered?	FedEx		

Log In

4.	Coolers are present?	Yes ☐	No ☑	NA ☐
5.	Was an attempt made to cool the samples?	Yes ☐	No ☑	NA ☐
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☑	NA ☐
		Not required		
7.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
8.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
9.	Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
10.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
11.	Is the headspace in the VOA vials less than 1/4 inch or 6 mm?	Yes ☐	No ☐	No VOA Vials ☑
12.	Were any sample containers received broken?	Yes ☐	No ☑	
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
14.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
15.	Is it clear what analyses were requested?	Yes ☑	No ☐	
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
box	19.6	Good	Not Present			

August 2022 Laboratory Analytical Report

October 11, 2022

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 22081061

Dear Eric Staley:

TEKLAB, INC received 15 samples on 8/26/2022 8:00:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 22081061
Report Date: 11-Oct-22

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
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Client: City Water, Light & Power **Work Order:** 22081061

Client Project: Ash Pond Monitoring Wells **Report Date:** 11-Oct-22

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power
Work Order: 22081061

Client Project: Ash Pond Monitoring Wells
Report Date: 11-Oct-22

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 22081061
Client Project: Ash Pond Monitoring Wells
Report Date: 11-Oct-22

Cooler Receipt Temp: 3.0 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 and Radium-228 analysis was performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power
Work Order: 22081061
Client Project: Ash Pond Monitoring Wells
Report Date: 11-Oct-22

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2023	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2023	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2023	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2023	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2023	Collinsville
Arkansas	ADEQ	88-0966		3/14/2023	Collinsville
Illinois	IDPH	17584		5/31/2023	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2023	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: City Water, Light & Power **Work Order:** 22081061

Client Project: Ash Pond Monitoring Wells **Report Date:** 11-Oct-22

Lab ID: 22081061-001 **Client Sample ID:** RW-3

Matrix: GROUNDWATER **Collection Date:** 08/23/2022 11:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	08/23/2022 11:45	R316831
Depth to water	*	-5.00		**7.08**	ft	1	08/23/2022 11:45	R316831
Depth to water from measuring point	*	0		**9.78**	ft	1	08/23/2022 11:45	R316831
Elevation of groundwater surface	*	0		**529.72**	ft	1	08/23/2022 11:45	R316831
Measuring Point Elevation	*	0		**539.50**	ft	1	08/23/2022 11:45	R316831
Measuring Point Height Above Land Surface	*	0		**2.70**	ft	1	08/23/2022 11:45	R316831
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**< 1.0**	NTU	1	08/23/2022 11:45	R316831
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.4**	°F	1	08/23/2022 11:45	R316831
SW-846 9040B								
pH, Field	*	1.00		**7.11**		1	08/23/2022 11:45	R316831
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**744**	µmhos/cm @25C	1	08/23/2022 11:45	R316831
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**428**	mg/L	1	08/26/2022 12:12	R316361
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10	S	**< 10**	mg/L	1	08/29/2022 13:31	R316392
Matrix spike did not recover within control limits due to matrix interference.								
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.48**	mg/L	1	08/30/2022 16:45	R316443
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**31**	mg/L	1	08/29/2022 13:31	R316398
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**0.110**	mg/L	1	08/29/2022 16:00	196039
Barium	NELAP	0.0025		**0.158**	mg/L	1	08/29/2022 16:00	196039
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/29/2022 16:00	196039
Boron	NELAP	0.0200		**0.177**	mg/L	1	08/29/2022 16:00	196039
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/29/2022 16:00	196039
Calcium	NELAP	0.100		**72.3**	mg/L	1	08/29/2022 16:00	196039
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:00	196039
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:00	196039
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	08/29/2022 16:00	196039
Lithium	NELAP	0.0050		**0.0064**	mg/L	1	08/29/2022 16:00	196039
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/29/2022 16:00	196039
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 17:30	196039
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 17:30	196039
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/30/2022 17:30	196039
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/29/2022 10:52	196051
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	09/28/2022 0:00	R319286
Radium-228	*	0		**See attached**	pci/L	1	09/28/2022 0:00	R319286

Client: City Water, Light & Power
Work Order: 22081061
Client Project: Ash Pond Monitoring Wells
Report Date: 11-Oct-22
Lab ID: 22081061-002
Client Sample ID: AP-1
Matrix: GROUNDWATER
Collection Date: 08/23/2022 10:56

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**504.29**	ft	1	08/23/2022 10:56	R316831
Depth to water	*	-5.00		**8.06**	ft	1	08/23/2022 10:56	R316831
Depth to water from measuring point	*	0		**10.33**	ft	1	08/23/2022 10:56	R316831
Elevation of groundwater surface	*	0		**525.04**	ft	1	08/23/2022 10:56	R316831
Measuring Point Elevation	*	0		**535.37**	ft	1	08/23/2022 10:56	R316831
Measuring Point Height Above Land Surface	*	0		**2.27**	ft	1	08/23/2022 10:56	R316831
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**1.2**	NTU	1	08/23/2022 10:56	R316831
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.0**	°F	1	08/23/2022 10:56	R316831
SW-846 9040B								
pH, Field	*	1.00		**6.65**		1	08/23/2022 10:56	R316831
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1420**	µmhos/cm @25C	1	08/23/2022 10:56	R316831
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1550**	mg/L	2.5	08/26/2022 12:12	R316361
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**753**	mg/L	20	08/29/2022 14:15	R316392
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.20**	mg/L	1	08/30/2022 16:54	R316443
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**44**	mg/L	20	08/29/2022 14:14	R316398
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/29/2022 16:04	196039
Barium	NELAP	0.0025		**0.246**	mg/L	1	08/29/2022 16:04	196039
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/29/2022 16:04	196039
Boron	NELAP	0.200		**22.1**	mg/L	10	08/30/2022 14:08	196039
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/29/2022 16:04	196039
Calcium	NELAP	0.100		**239**	mg/L	1	08/29/2022 16:04	196039
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:04	196039
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:04	196039
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	08/29/2022 16:04	196039
Lithium	NELAP	0.0050		**0.0087**	mg/L	1	08/29/2022 16:04	196039
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/29/2022 16:04	196039
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 17:36	196039
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 17:36	196039
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/30/2022 17:36	196039
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/29/2022 10:54	196051
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	09/28/2022 0:00	R319286
Radium-228	*	0		**See attached**	pci/L	1	09/28/2022 0:00	R319286

Client: City Water, Light & Power
Work Order: 22081061
Client Project: Ash Pond Monitoring Wells
Report Date: 11-Oct-22
Lab ID: 22081061-003
Client Sample ID: AP-2
Matrix: GROUNDWATER
Collection Date: 08/23/2022 10:29

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.77**	ft	1	08/23/2022 10:29	R316831
Depth to water	*	-5.00		**6.37**	ft	1	08/23/2022 10:29	R316831
Depth to water from measuring point	*	0		**8.87**	ft	1	08/23/2022 10:29	R316831
Elevation of groundwater surface	*	0		**527.23**	ft	1	08/23/2022 10:29	R316831
Measuring Point Elevation	*	0		**536.10**	ft	1	08/23/2022 10:29	R316831
Measuring Point Height Above Land Surface	*	0		**2.50**	ft	1	08/23/2022 10:29	R316831
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**< 1.0**	NTU	1	08/23/2022 10:29	R316831
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.0**	°F	1	08/23/2022 10:29	R316831
SW-846 9040B								
pH, Field	*	1.00		**6.45**		1	08/23/2022 10:29	R316831
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1710**	µmhos/cm @25C	1	08/23/2022 10:29	R316831
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1360**	mg/L	1	08/26/2022 12:13	R316361
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**545**	mg/L	20	08/29/2022 14:23	R316392
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.24**	mg/L	1	08/30/2022 16:56	R316443
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**34**	mg/L	1	08/29/2022 14:17	R316398
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/29/2022 16:07	196039
Barium	NELAP	0.0025		**0.0751**	mg/L	1	08/29/2022 16:07	196039
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/29/2022 16:07	196039
Boron	NELAP	0.0200		**4.32**	mg/L	1	08/29/2022 16:07	196039
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/29/2022 16:07	196039
Calcium	NELAP	0.100		**241**	mg/L	1	08/29/2022 16:07	196039
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:07	196039
Cobalt	NELAP	0.0050		**0.0115**	mg/L	1	08/29/2022 16:07	196039
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	08/29/2022 16:07	196039
Lithium	NELAP	0.0050		**0.0055**	mg/L	1	08/29/2022 16:07	196039
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/29/2022 16:07	196039
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 17:43	196039
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 17:43	196039
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/30/2022 17:43	196039
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/29/2022 10:56	196051
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	09/28/2022 0:00	R319286
Radium-228	*	0		**See attached**	pci/L	1	09/28/2022 0:00	R319286

Client: City Water, Light & Power
Work Order: 22081061
Client Project: Ash Pond Monitoring Wells
Report Date: 11-Oct-22
Lab ID: 22081061-004
Client Sample ID: AP-3
Matrix: GROUNDWATER
Collection Date: 08/23/2022 10:05

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.45**	ft	1	08/23/2022 10:05	R316831
Depth to water	*	-5.00		**9.31**	ft	1	08/23/2022 10:05	R316831
Depth to water from measuring point	*	0		**11.01**	ft	1	08/23/2022 10:05	R316831
Elevation of groundwater surface	*	0		**524.39**	ft	1	08/23/2022 10:05	R316831
Measuring Point Elevation	*	0		**535.40**	ft	1	08/23/2022 10:05	R316831
Measuring Point Height Above Land Surface	*	0		**1.70**	ft	1	08/23/2022 10:05	R316831
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.0**	NTU	1	08/23/2022 10:05	R316831
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.9**	°F	1	08/23/2022 10:05	R316831
SW-846 9040B								
pH, Field	*	1.00		**6.60**		1	08/23/2022 10:05	R316831
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1090**	µmhos/cm @25C	1	08/23/2022 10:05	R316831
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1030**	mg/L	1	08/26/2022 12:13	R316361
SW-846 9036 (TOTAL)								
Sulfate	NELAP	100		**384**	mg/L	10	08/29/2022 14:43	R316392
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.23**	mg/L	1	08/30/2022 16:58	R316443
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**47**	mg/L	1	08/29/2022 14:25	R316398
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/29/2022 16:11	196039
Barium	NELAP	0.0025		**0.0883**	mg/L	1	08/29/2022 16:11	196039
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/29/2022 16:11	196039
Boron	NELAP	0.0200		**14.8**	mg/L	1	08/29/2022 16:11	196039
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/29/2022 16:11	196039
Calcium	NELAP	0.100		**157**	mg/L	1	08/29/2022 16:11	196039
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:11	196039
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:11	196039
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	08/29/2022 16:11	196039
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:11	196039
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/29/2022 16:11	196039
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 18:14	196039
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 18:14	196039
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/30/2022 18:14	196039
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/29/2022 10:58	196051
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	09/28/2022 0:00	R319286
Radium-228	*	0		**See attached**	pci/L	1	09/28/2022 0:00	R319286

Client: City Water, Light & Power
Work Order: 22081061
Client Project: Ash Pond Monitoring Wells
Report Date: 11-Oct-22
Lab ID: 22081061-005
Client Sample ID: AP-4
Matrix: GROUNDWATER
Collection Date: 08/23/2022 14:44

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.79**	ft	1	08/23/2022 14:44	R316831
Depth to water	*	-5.00		**3.55**	ft	1	08/23/2022 14:44	R316831
Depth to water from measuring point	*	0		**8.85**	ft	1	08/23/2022 14:44	R316831
Elevation of groundwater surface	*	0		**550.35**	ft	1	08/23/2022 14:44	R316831
Measuring Point Elevation	*	0		**559.20**	ft	1	08/23/2022 14:44	R316831
Measuring Point Height Above Land Surface	*	0		**5.30**	ft	1	08/23/2022 14:44	R316831
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**41**	NTU	1	08/23/2022 14:44	R316831
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.9**	°F	1	08/23/2022 14:44	R316831
SW-846 9040B								
pH, Field	*	1.00		**6.89**		1	08/23/2022 14:44	R316831
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**814**	µmhos/cm @25C	1	08/23/2022 14:44	R316831
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**540**	mg/L	2.5	08/26/2022 12:13	R316361
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	08/31/2022 11:19	R316499
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.15**	mg/L	1	08/30/2022 17:00	R316443
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**13**	mg/L	1	08/29/2022 14:46	R316398
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**0.0309**	mg/L	1	08/29/2022 16:15	196039
Barium	NELAP	0.0025		**0.392**	mg/L	1	08/29/2022 16:15	196039
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/29/2022 16:15	196039
Boron	NELAP	0.0200		**0.0927**	mg/L	1	08/30/2022 13:20	196039
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/29/2022 16:15	196039
Calcium	NELAP	0.100		**116**	mg/L	1	08/29/2022 16:15	196039
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:15	196039
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:15	196039
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	08/29/2022 16:15	196039
Lithium	NELAP	0.0050		**0.0077**	mg/L	1	08/29/2022 16:15	196039
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/29/2022 16:15	196039
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 18:20	196039
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 18:20	196039
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/30/2022 18:20	196039
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/29/2022 11:01	196051
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	09/28/2022 0:00	R319286
Radium-228	*	0		**See attached**	pci/L	1	09/28/2022 0:00	R319286

Client: City Water, Light & Power
Work Order: 22081061
Client Project: Ash Pond Monitoring Wells
Report Date: 11-Oct-22
Lab ID: 22081061-006
Client Sample ID: AP-5
Matrix: GROUNDWATER
Collection Date: 08/23/2022 15:08

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**552.63**	ft	1	08/23/2022 15:08	R316831
Depth to water	*	-5.00		**12.05**	ft	1	08/23/2022 15:08	R316831
Depth to water from measuring point	*	0		**14.35**	ft	1	08/23/2022 15:08	R316831
Elevation of groundwater surface	*	0		**569.55**	ft	1	08/23/2022 15:08	R316831
Measuring Point Elevation	*	0		**583.90**	ft	1	08/23/2022 15:08	R316831
Measuring Point Height Above Land Surface	*	0		**2.30**	ft	1	08/23/2022 15:08	R316831
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**< 1.0**	NTU	1	08/23/2022 15:08	R316831
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.0**	°F	1	08/23/2022 15:08	R316831
SW-846 9040B								
pH, Field	*	1.00		**7.16**		1	08/23/2022 15:08	R316831
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**577**	µmhos/cm @25C	1	08/23/2022 15:08	R316831
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**488**	mg/L	1	08/26/2022 12:13	R316361
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**66**	mg/L	5	08/31/2022 11:24	R316499
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.29**	mg/L	1	08/30/2022 17:02	R316443
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**6**	mg/L	1	08/29/2022 14:57	R316398
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/29/2022 16:18	196039
Barium	NELAP	0.0025		**0.0908**	mg/L	1	08/29/2022 16:18	196039
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/29/2022 16:18	196039
Boron	NELAP	0.0200		**< 0.0200**	mg/L	1	08/30/2022 12:54	196039
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/29/2022 16:18	196039
Calcium	NELAP	0.100		**102**	mg/L	1	08/29/2022 16:18	196039
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:18	196039
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:18	196039
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	08/29/2022 16:18	196039
Lithium	NELAP	0.0050		**0.0104**	mg/L	1	08/29/2022 16:18	196039
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/29/2022 16:18	196039
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 18:27	196039
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 18:27	196039
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/30/2022 18:27	196039
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/29/2022 11:08	196051
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	09/28/2022 0:00	R319286
Radium-228	*	0		**See attached**	pci/L	1	09/28/2022 0:00	R319286

Client: City Water, Light & Power
Work Order: 22081061
Client Project: Ash Pond Monitoring Wells
Report Date: 11-Oct-22
Lab ID: 22081061-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 08/23/2022 14:08

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.20**	ft	1	08/23/2022 14:08	R316831
Depth to water	*	-5.00		**6.80**	ft	1	08/23/2022 14:08	R316831
Depth to water from measuring point	*	0		**9.22**	ft	1	08/23/2022 14:08	R316831
Elevation of groundwater surface	*	0		**528.60**	ft	1	08/23/2022 14:08	R316831
Measuring Point Elevation	*	0		**537.82**	ft	1	08/23/2022 14:08	R316831
Measuring Point Height Above Land Surface	*	0		**2.42**	ft	1	08/23/2022 14:08	R316831
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.0**	NTU	1	08/23/2022 14:08	R316831
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.5**	°F	1	08/23/2022 14:08	R316831
SW-846 9040B								
pH, Field	*	1.00		**7.20**		1	08/23/2022 14:08	R316831
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**683**	µmhos/cm @25C	1	08/23/2022 14:08	R316831
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**246**	mg/L	1	08/26/2022 12:14	R316361
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**15**	mg/L	1	08/29/2022 15:18	R316392
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.31**	mg/L	1	08/30/2022 17:04	R316443
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**25**	mg/L	1	08/29/2022 15:18	R316398
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/29/2022 16:41	196039
Barium	NELAP	0.0025		**0.0660**	mg/L	1	08/29/2022 16:41	196039
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/29/2022 16:41	196039
Boron	NELAP	0.0200		**0.0716**	mg/L	1	08/30/2022 12:58	196039
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/29/2022 16:41	196039
Calcium	NELAP	0.100	S	**43.0**	mg/L	1	08/29/2022 16:41	196039
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:41	196039
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:41	196039
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	08/29/2022 16:41	196039
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:41	196039
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/29/2022 16:41	196039
Matrix spike control limits for Ca are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 18:58	196039
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 18:58	196039
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/30/2022 18:58	196039
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/29/2022 11:14	196051
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	09/28/2022 0:00	R319286
Radium-228	*	0		**See attached**	pci/L	1	09/28/2022 0:00	R319286

Client: City Water, Light & Power
Work Order: 22081061
Client Project: Ash Pond Monitoring Wells
Report Date: 11-Oct-22
Lab ID: 22081061-008
Client Sample ID: AP-7
Matrix: GROUNDWATER
Collection Date: 08/25/2022 11:49

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**496.50**	ft	1	08/25/2022 11:49	R316831
Depth to water	*	-5.00		**8.55**	ft	1	08/25/2022 11:49	R316831
Depth to water from measuring point	*	0		**11.21**	ft	1	08/25/2022 11:49	R316831
Elevation of groundwater surface	*	0		**527.81**	ft	1	08/25/2022 11:49	R316831
Measuring Point Elevation	*	0		**539.02**	ft	1	08/25/2022 11:49	R316831
Measuring Point Height Above Land Surface	*	0		**2.66**	ft	1	08/25/2022 11:49	R316831
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**< 1.0**	NTU	1	08/25/2022 11:49	R316831
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.7**	°F	1	08/25/2022 11:49	R316831
SW-846 9040B								
pH, Field	*	1.00		**7.12**		1	08/25/2022 11:49	R316831
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**525**	µmhos/cm @25C	1	08/25/2022 11:49	R316831
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**290**	mg/L	1	08/26/2022 12:14	R316361
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**15**	mg/L	1	08/29/2022 15:39	R316392
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.37**	mg/L	1	08/30/2022 17:06	R316443
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**36**	mg/L	1	08/29/2022 15:39	R316398
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**0.0376**	mg/L	1	08/29/2022 16:22	196039
Barium	NELAP	0.0025		**0.119**	mg/L	1	08/29/2022 16:22	196039
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/29/2022 16:22	196039
Boron	NELAP	0.0200		**0.204**	mg/L	1	08/29/2022 16:22	196039
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/29/2022 16:22	196039
Calcium	NELAP	0.100		**46.4**	mg/L	1	08/29/2022 16:22	196039
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:22	196039
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:22	196039
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	08/29/2022 16:22	196039
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:22	196039
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/29/2022 16:22	196039
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 18:33	196039
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 18:33	196039
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/30/2022 18:33	196039
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/29/2022 11:17	196051
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	09/28/2022 0:00	R319286
Radium-228	*	0		**See attached**	pci/L	1	09/28/2022 0:00	R319286

Client: City Water, Light & Power
Work Order: 22081061
Client Project: Ash Pond Monitoring Wells
Report Date: 11-Oct-22
Lab ID: 22081061-009
Client Sample ID: AP-8
Matrix: GROUNDWATER
Collection Date: 08/23/2022 13:29

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.60**	ft	1	08/23/2022 13:29	R316831
Depth to water	*	-5.00		**4.40**	ft	1	08/23/2022 13:29	R316831
Depth to water from measuring point	*	0		**7.30**	ft	1	08/23/2022 13:29	R316831
Elevation of groundwater surface	*	0		**529.90**	ft	1	08/23/2022 13:29	R316831
Measuring Point Elevation	*	0		**537.20**	ft	1	08/23/2022 13:29	R316831
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	08/23/2022 13:29	R316831
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**< 1.0**	NTU	1	08/23/2022 13:29	R316831
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.6**	°F	1	08/23/2022 13:29	R316831
SW-846 9040B								
pH, Field	*	1.00		**6.76**		1	08/23/2022 13:29	R316831
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**814**	µmhos/cm @25C	1	08/23/2022 13:29	R316831
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**540**	mg/L	2.5	08/26/2022 12:15	R316361
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	08/29/2022 15:47	R316392
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.30**	mg/L	1	08/30/2022 17:08	R316443
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**27**	mg/L	1	08/29/2022 15:47	R316398
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**0.0377**	mg/L	1	08/29/2022 16:52	196039
Barium	NELAP	0.0025		**0.355**	mg/L	1	08/29/2022 16:52	196039
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/29/2022 16:52	196039
Boron	NELAP	0.0200		**0.0839**	mg/L	1	08/30/2022 13:12	196039
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/29/2022 16:52	196039
Calcium	NELAP	0.100		**96.1**	mg/L	1	08/29/2022 16:52	196039
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:52	196039
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:52	196039
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	08/29/2022 16:52	196039
Lithium	NELAP	0.0050		**0.0065**	mg/L	1	08/29/2022 16:52	196039
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/29/2022 16:52	196039
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 18:39	196039
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 18:39	196039
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/30/2022 18:39	196039
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/29/2022 11:19	196051
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	09/28/2022 0:00	R319286
Radium-228	*	0		**See attached**	pci/L	1	09/28/2022 0:00	R319286

Client: City Water, Light & Power
Work Order: 22081061
Client Project: Ash Pond Monitoring Wells
Report Date: 11-Oct-22
Lab ID: 22081061-011
Client Sample ID: AP-10
Matrix: GROUNDWATER
Collection Date: 08/23/2022 12:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**499.43**	ft	1	08/23/2022 12:45	R316831
Depth to water	*	-5.00		**0.55**	ft	1	08/23/2022 12:45	R316831
Depth to water from measuring point	*	0		**3.65**	ft	1	08/23/2022 12:45	R316831
Elevation of groundwater surface	*	0		**533.85**	ft	1	08/23/2022 12:45	R316831
Measuring Point Elevation	*	0		**537.50**	ft	1	08/23/2022 12:45	R316831
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	08/23/2022 12:45	R316831
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**9.9**	NTU	1	08/23/2022 12:45	R316831
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.4**	°F	1	08/23/2022 12:45	R316831
SW-846 9040B								
pH, Field	*	1.00		**6.70**		1	08/23/2022 12:45	R316831
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1200**	µmhos/cm @25C	1	08/23/2022 12:45	R316831
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**755**	mg/L	2.5	08/26/2022 12:15	R316361
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**87**	mg/L	5	08/29/2022 16:08	R316392
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.34**	mg/L	1	08/30/2022 17:19	R316443
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**28**	mg/L	1	08/29/2022 16:03	R316398
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/29/2022 16:59	196039
Barium	NELAP	0.0025		**0.553**	mg/L	1	08/29/2022 16:59	196039
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/29/2022 16:59	196039
Boron	NELAP	0.0200		**3.52**	mg/L	1	08/30/2022 14:17	196039
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/29/2022 16:59	196039
Calcium	NELAP	0.100		**140**	mg/L	1	08/29/2022 16:59	196039
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:59	196039
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 16:59	196039
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	08/29/2022 16:59	196039
Lithium	NELAP	0.0050		**0.0087**	mg/L	1	08/29/2022 16:59	196039
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/29/2022 16:59	196039
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 18:52	196039
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 18:52	196039
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/30/2022 18:52	196039
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/29/2022 11:23	196051
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	09/28/2022 0:00	R319286
Radium-228	*	0		**See attached**	pci/L	1	09/28/2022 0:00	R319286

Client: City Water, Light & Power
Work Order: 22081061
Client Project: Ash Pond Monitoring Wells
Report Date: 11-Oct-22
Lab ID: 22081061-015
Client Sample ID: AP-14
Matrix: GROUNDWATER
Collection Date: 08/24/2022 17:09

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**508.40**	ft	1	08/24/2022 17:09	R316831
Depth to water	*	-5.00		**-0.11**	ft	1	08/24/2022 17:09	R316831
Depth to water from measuring point	*	0		**2.69**	ft	1	08/24/2022 17:09	R316831
Elevation of groundwater surface	*	0		**536.91**	ft	1	08/24/2022 17:09	R316831
Measuring Point Elevation	*	0		**539.60**	ft	1	08/24/2022 17:09	R316831
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	08/24/2022 17:09	R316831
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.8**	NTU	1	08/24/2022 17:09	R316831
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.8**	°F	1	08/24/2022 17:09	R316831
SW-846 9040B								
pH, Field	*	1.00		**6.94**		1	08/24/2022 17:09	R316831
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1340**	µmhos/cm @25C	1	08/24/2022 17:09	R316831
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1390**	mg/L	1	08/26/2022 12:16	R316361
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**639**	mg/L	20	08/29/2022 16:54	R316392
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.29**	mg/L	1	08/30/2022 17:26	R316443
SW-846 9251 (TOTAL)								
Chloride	NELAP	5		**59**	mg/L	5	08/29/2022 16:49	R316398
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/29/2022 17:36	196039
Barium	NELAP	0.0025		**0.0361**	mg/L	1	08/29/2022 17:36	196039
Beryllium	NELAP	0.0005		**0.0009**	mg/L	1	08/29/2022 17:36	196039
Boron	NELAP	0.200		**21.8**	mg/L	10	08/30/2022 14:05	196039
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/29/2022 17:36	196039
Calcium	NELAP	0.100		**217**	mg/L	1	08/29/2022 17:36	196039
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 17:36	196039
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/29/2022 17:36	196039
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	08/29/2022 17:36	196039
Lithium	NELAP	0.0050		**0.0063**	mg/L	1	08/29/2022 17:36	196039
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/29/2022 17:36	196039
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 21:16	196039
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/30/2022 21:16	196039
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/30/2022 21:16	196039
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/29/2022 11:41	196051
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	10/07/2022 0:00	R319286
Radium-228	*	0		**See attached**	pci/L	1	10/07/2022 0:00	R319286

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 22081061
Report Date: 11-Oct-22

Carrier: Adam Bridges

Received By: EAH

Completed by: Reannan Willis
On: 26-Aug-22

Reviewed by: Elizabeth A. Hurley
On: 26-Aug-22

Pages to follow: Chain of custody 2 Extra pages included 36

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 3.0
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

pH strip #82999. - BNB/rwillis - 8/26/2022 9:15:00 AM

Additional Nitric Acid (83663) was needed in all samples for Ra226/228 analysis except on AP-13 container upon arrival at the laboratory. - rwillis - 8/26/2022 9:15:03 AM

Print PDF

CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 72081061

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 3.0 °C
Preserved in: ☒ LAB ☐ FIELD FOR LAB USE ONLY VTB3
LAB NOTES: 82999. BLB 8/26/22
Added HNO3 (83 ml) to all SUB 2L bottles except AP-13 Secon

Client Comments: SUB bottle. RMW 8/26/22

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☑ No Permit on file

*elevations, pH, conductivity, temperature
**Sb Se Tl (ICPMS) As Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
22081061-001	RW-3	08/23/22 1145	Groundwater	1	3								✔	✔	✔	✔	✔	✔
002	AP-1	08/23/22 1056	Groundwater	1	3								✔	✔	✔	✔	✔	✔
003	AP-2	08/23/22 1029	Groundwater	1	3								✔	✔	✔	✔	✔	✔
004	AP-3	08/23/22 1005	Groundwater	1	3								✔	✔	✔	✔	✔	✔
005	AP-4	08/23/22 1444	Groundwater	1	3								✔	✔	✔	✔	✔	✔
006	AP-5	08/23/22 1508	Groundwater	1	3								✔	✔	✔	✔	✔	✔
007	AP-6	08/25/22 1408	Groundwater	1	3								✔	✔	✔	✔	✔	✔
008	AP-7	08/25/22 1149	Groundwater	1	3								✔	✔	✔	✔	✔	✔
009	AP-8	08/23/22 1329	Groundwater	1	3								✔	✔	✔	✔	✔	✔
010	AP-9	08/25/22 1249	Groundwater	1	3								✔	✔	✔	✔	✔	✔
011	AP-10	08/23/22 1245	Groundwater	1	3								✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
	08/26/22		08-26-22 0750
	08-26-22 0800		8/26/22 0800

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

GAH 8/26/22

Print PDF

CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 22081061

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Client Comments:
*elevations, pH, conductivity, temperature
**Sb Se Tl (ICPMS) As Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
22081061-012	AP-11	08/25/22 1425	Groundwater	1	3								✔	✔	✔	✔	✔	✔
013	AP-12	08/25/22 1411	Groundwater	1	3								✔	✔	✔	✔	✔	✔
014	AP-13	08/25/22 1357	Groundwater	1	3								✔	✔	✔	✔	✔	✔
015	AP-14	08/24/22 1705	Groundwater	1	3								✔	✔	✔	✔	✔	✔
			Groundwater										✔	✔	✔	✔	✔	✔
			Groundwater										✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
	08/26/22		8-26-22 0750
	8-26-22 0800	Elizabeth A Hartley	8/26/22 0800

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

October 11, 2022

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 22081061

Order No.: 22090086

Dear Shelly Hennessy:

Summit Environmental Technologies, Inc. received 15 sample(s) on 8/31/2022 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 011, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Case Narrative

WO#: **22090086**
Date: **10/11/2022**

CLIENT: TEKLAB Inc,
Project: 22081061

WorkOrder Narrative:
22090086: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Sequence Sample Notes:
22090086-001A Radium-228_NPW(904.0): Sample and Sample Duplicate exhibited high RPD for Radium-228 possibly due to sample matrix interference.
22090086-002A Radium-228_NPW(904.0): Sample and Sample Duplicate exhibited high RPD for Radium-228 possibly due to sample matrix interference.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, In
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-44
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **22090086**
Date: **10/11/2022**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Workorder Sample Summary

WO#: **22090086**
11-Oct-22

CLIENT: TEKLAB Inc,
Project: 22081061

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
22090086-001	22081061-001		8/23/2022 11:45:00 AM	8/31/2022 2:50:00 PM	Non-Potable Water
22090086-002	22081061-002		8/23/2022 10:56:00 AM	8/31/2022 2:50:00 PM	Non-Potable Water
22090086-003	22081061-003		8/23/2022 10:29:00 AM	8/31/2022 2:50:00 PM	Non-Potable Water
22090086-004	22081061-004		8/23/2022 10:05:00 AM	8/31/2022 2:50:00 PM	Non-Potable Water
22090086-005	22081061-005		8/23/2022 2:44:00 PM	8/31/2022 2:50:00 PM	Non-Potable Water
22090086-006	22081061-006		8/23/2022 3:08:00 PM	8/31/2022 2:50:00 PM	Non-Potable Water
22090086-007	22081061-007		8/23/2022 2:08:00 PM	8/31/2022 2:50:00 PM	Non-Potable Water
22090086-008	22081061-008		8/25/2022 11:49:00 AM	8/31/2022 2:50:00 PM	Non-Potable Water
22090086-009	22081061-009		8/23/2022 1:29:00 PM	8/31/2022 2:50:00 PM	Non-Potable Water
22090086-010	22081061-010		8/25/2022 12:49:00 PM	8/31/2022 2:50:00 PM	Non-Potable Water
22090086-011	22081061-011		8/23/2022 12:45:00 PM	8/31/2022 2:50:00 PM	Non-Potable Water
22090086-012	22081061-012		8/25/2022 2:25:00 PM	8/31/2022 2:50:00 PM	Non-Potable Water
22090086-013	22081061-013		8/25/2022 2:11:00 PM	8/31/2022 2:50:00 PM	Non-Potable Water
22090086-014	22081061-014		8/25/2022 1:51:00 PM	8/31/2022 2:50:00 PM	Non-Potable Water
22090086-015	22081061-015		8/24/2022 5:09:00 PM	8/31/2022 2:50:00 PM	Non-Potable Water

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

DATES REPORT

WO#: **22090086**

11-Oct-22

Client: TEKLAB Inc,
Project: 22081061

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
22090086-001A	22081061-001	8/23/2022 11:45:00 AM	Non-Potable Water	Radium-226 (EPA 903.0)		9/19/2022 12:05:00 PM	9/30/2022 11:26:00 AM
				Radium-228 (EPA 904.0)		9/19/2022 12:05:00 PM	9/28/2022 4:07:00 PM
22090086-002A	22081061-002	8/23/2022 10:56:00 AM		Radium-226 (EPA 903.0)		9/19/2022 12:05:00 PM	9/30/2022 11:26:00 AM
				Radium-228 (EPA 904.0)		9/19/2022 12:05:00 PM	9/28/2022 4:07:00 PM
22090086-003A	22081061-003	8/23/2022 10:29:00 AM		Radium-226 (EPA 903.0)		9/19/2022 12:05:00 PM	9/30/2022 11:26:00 AM
				Radium-228 (EPA 904.0)		9/19/2022 12:05:00 PM	9/28/2022 4:07:00 PM
22090086-004A	22081061-004	8/23/2022 10:05:00 AM		Radium-226 (EPA 903.0)		9/19/2022 12:05:00 PM	9/30/2022 11:26:00 AM
				Radium-228 (EPA 904.0)		9/19/2022 12:05:00 PM	9/28/2022 4:07:00 PM
22090086-005A	22081061-005	8/23/2022 2:44:00 PM		Radium-226 (EPA 903.0)		9/19/2022 12:05:00 PM	9/30/2022 11:26:00 AM
				Radium-228 (EPA 904.0)		9/19/2022 12:05:00 PM	9/28/2022 4:07:00 PM
22090086-006A	22081061-006	8/23/2022 3:08:00 PM		Radium-226 (EPA 903.0)		9/19/2022 12:05:00 PM	9/30/2022 11:26:00 AM
				Radium-228 (EPA 904.0)		9/19/2022 12:05:00 PM	9/28/2022 4:07:00 PM
22090086-007A	22081061-007	8/23/2022 2:08:00 PM		Radium-226 (EPA 903.0)		9/19/2022 12:05:00 PM	9/30/2022 11:26:00 AM
				Radium-228 (EPA 904.0)		9/19/2022 12:05:00 PM	9/28/2022 4:07:00 PM
22090086-008A	22081061-008	8/25/2022 11:49:00 AM		Radium-226 (EPA 903.0)		9/19/2022 12:05:00 PM	9/30/2022 11:26:00 AM
				Radium-228 (EPA 904.0)		9/19/2022 12:05:00 PM	9/28/2022 4:07:00 PM
22090086-009A	22081061-009	8/23/2022 1:29:00 PM		Radium-226 (EPA 903.0)		9/19/2022 12:05:00 PM	9/30/2022 11:26:00 AM
				Radium-228 (EPA 904.0)		9/19/2022 12:05:00 PM	9/28/2022 4:07:00 PM
22090086-010A	22081061-010	8/25/2022 12:49:00 PM		Radium-226 (EPA 903.0)		9/19/2022 12:05:00 PM	9/30/2022 11:26:00 AM
				Radium-228 (EPA 904.0)		9/19/2022 12:05:00 PM	9/28/2022 4:07:00 PM
22090086-011A	22081061-011	8/23/2022 12:45:00 PM		Radium-226 (EPA 903.0)		9/19/2022 12:05:00 PM	9/30/2022 11:26:00 AM
				Radium-228 (EPA 904.0)		9/19/2022 12:05:00 PM	9/28/2022 4:07:00 PM
22090086-012A	22081061-012	8/25/2022 2:25:00 PM		Radium-226 (EPA 903.0)		9/19/2022 12:05:00 PM	9/30/2022 11:26:00 AM

Original

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DATES REPORT

WO#: **22090086**

11-Oct-22

Client: TEKLAB Inc,

Project: 22081061

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
22090086-012A	22081061-012	8/25/2022 2:25:00 PM	Non-Potable Water	Radium-228 (EPA 904.0)		9/19/2022 12:05:00 PM	9/28/2022 4:07:00 PM
22090086-013A	22081061-013	8/25/2022 2:11:00 PM		Radium-226 (EPA 903.0)		9/21/2022 10:25:00 AM	10/8/2022 10:50:00 AM
				Radium-228 (EPA 904.0)		9/21/2022 10:25:00 AM	10/7/2022 2:53:00 PM
22090086-014A	22081061-014	8/25/2022 1:51:00 PM		Radium-226 (EPA 903.0)		9/21/2022 10:25:00 AM	10/8/2022 10:50:00 AM
				Radium-228 (EPA 904.0)		9/21/2022 10:25:00 AM	10/7/2022 2:53:00 PM
22090086-015A	22081061-015	8/24/2022 5:09:00 PM		Radium-226 (EPA 903.0)		9/21/2022 10:25:00 AM	10/8/2022 10:50:00 AM
				Radium-228 (EPA 904.0)		9/21/2022 10:25:00 AM	10/7/2022 2:53:00 PM

Original

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Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **22090086**

Date Reported: **10/11/2022**

CLIENT: TEKLAB Inc,
Collection Date: 8/23/2022 11:45:00 AM
Project: 22081061
Lab ID: 22090086-001
Matrix: NON-POTABLE WATER
Client Sample ID: 22081061-001

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.1	1	9/30/2022 11:26:00 AM
Yield	0.960					1	9/30/2022 11:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00	QDR	pCi/L	± 0.53	1	9/28/2022 4:07:00 PM
Yield	1.00					1	9/28/2022 4:07:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

Summit Environmental Technologies, Inc.
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Analytical Report

(consolidated)

WO#: **22090086**

Date Reported: **10/11/2022**

CLIENT: TEKLAB Inc,
Project: 22081061
Lab ID: 22090086-002
Client Sample ID: 22081061-002

Collection Date: 8/23/2022 10:56:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.1	1	9/30/2022 11:26:00 AM
Yield	1.00					1	9/30/2022 11:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00	QDR	pCi/L	± 0.68	1	9/28/2022 4:07:00 PM
Yield	1.00					1	9/28/2022 4:07:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22090086**

Date Reported: **10/11/2022**

CLIENT: TEKLAB Inc,
Collection Date: 8/23/2022 10:29:00 AM
Project: 22081061
Lab ID: 22090086-003
Matrix: NON-POTABLE WATER
Client Sample ID: 22081061-003

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.08	1	9/30/2022 11:26:00 AM
Yield	0.960					1	9/30/2022 11:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.66	1	9/28/2022 4:07:00 PM
Yield	1.00					1	9/28/2022 4:07:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22090086**

Date Reported: **10/11/2022**

CLIENT: TEKLAB Inc,
Project: 22081061
Lab ID: 22090086-004
Client Sample ID: 22081061-004

Collection Date: 8/23/2022 10:05:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.09	1	9/30/2022 11:26:00 AM
Yield	0.970					1	9/30/2022 11:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.56	1	9/28/2022 4:07:00 PM
Yield	1.00					1	9/28/2022 4:07:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22090086**

Date Reported: **10/11/2022**

CLIENT: TEKLAB Inc,
Collection Date: 8/23/2022 2:44:00 PM
Project: 22081061
Lab ID: 22090086-005
Matrix: NON-POTABLE WATER
Client Sample ID: 22081061-005

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.16	1	9/30/2022 11:26:00 AM
Yield	0.990					1	9/30/2022 11:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.79	1	9/28/2022 4:07:00 PM
Yield	1.00					1	9/28/2022 4:07:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22090086**

Date Reported: **10/11/2022**

CLIENT: TEKLAB Inc,
Collection Date: 8/23/2022 3:08:00 PM
Project: 22081061
Lab ID: 22090086-006
Matrix: NON-POTABLE WATER
Client Sample ID: 22081061-006

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.05	1	9/30/2022 11:26:00 AM
Yield	0.960					1	9/30/2022 11:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.99	1	9/28/2022 4:07:00 PM
Yield	0.710					1	9/28/2022 4:07:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22090086**

Date Reported: **10/11/2022**

CLIENT: TEKLAB Inc,
Collection Date: 8/23/2022 2:08:00 PM
Project: 22081061
Lab ID: 22090086-007
Matrix: NON-POTABLE WATER
Client Sample ID: 22081061-007

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.07	1	9/30/2022 11:26:00 AM
Yield	1.00					1	9/30/2022 11:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.67	1	9/28/2022 4:07:00 PM
Yield	0.970					1	9/28/2022 4:07:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22090086**

Date Reported: **10/11/2022**

CLIENT: TEKLAB Inc,
Collection Date: 8/25/2022 11:49:00 AM
Project: 22081061
Lab ID: 22090086-008
Matrix: NON-POTABLE WATER
Client Sample ID: 22081061-008

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.05	1	9/30/2022 11:26:00 AM
Yield	0.980					1	9/30/2022 11:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.76	1	9/28/2022 4:07:00 PM
Yield	1.00					1	9/28/2022 4:07:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22090086**

Date Reported: **10/11/2022**

CLIENT: TEKLAB Inc,
Collection Date: 8/23/2022 1:29:00 PM
Project: 22081061
Lab ID: 22090086-009
Matrix: NON-POTABLE WATER
Client Sample ID: 22081061-009

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.16	1	9/30/2022 11:26:00 AM
Yield	1.00					1	9/30/2022 11:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.55	1	9/28/2022 4:07:00 PM
Yield	1.00					1	9/28/2022 4:07:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **22090086**

Date Reported: **10/11/2022**

CLIENT: TEKLAB Inc,
Collection Date: 8/23/2022 12:45:00 PM
Project: 22081061
Lab ID: 22090086-011
Matrix: NON-POTABLE WATER
Client Sample ID: 22081061-011

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.17	1	9/30/2022 11:26:00 AM
Yield	0.970					1	9/30/2022 11:26:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.57	1	9/28/2022 4:07:00 PM
Yield	0.870					1	9/28/2022 4:07:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **22090086**

Date Reported: **10/11/2022**

CLIENT: TEKLAB Inc,
Collection Date: 8/24/2022 5:09:00 PM
Project: 22081061
Lab ID: 22090086-015
Matrix: NON-POTABLE WATER
Client Sample ID: 22081061-015

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.17	1	10/8/2022 10:50:00 AM
Yield	ND					1	10/8/2022 10:50:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.88	1	10/7/2022 2:53:00 PM
Yield	0.740					1	10/7/2022 2:53:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit

Summit Environmental Technologies, Inc.
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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22090086**
11-Oct-22

Client: TEKLAB Inc,
Project: 22081061 **BatchID:** **59620**

Sample ID: **22090086-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/19/2022** RunNo: **151169**
Client ID: **22081061-001** Batch ID: **59620** TestNo: **E904.0** **E903-904** Analysis Date: **9/28/2022** SeqNo: **4020063**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.01	1.00		0	0			0	200	30	R
Yield	0.970			0	0			1.000	3.05		

Sample ID: **22090086-002ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/19/2022** RunNo: **151169**
Client ID: **22081061-002** Batch ID: **59620** TestNo: **E904.0** **E903-904** Analysis Date: **9/28/2022** SeqNo: **4020065**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	30	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **22090086**

11-Oct-22

Client: TEKLAB Inc,
Project: 22081061 **BatchID:** **59620**

Sample ID: **MB-59620**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/19/2022**	RunNo: **151169**
Client ID: **PBW**	Batch ID: **59620**	TestNo: **E904.0**	**E903-904**	Analysis Date: **9/28/2022**	SeqNo: **4019852**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCSD-59620**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/19/2022**	RunNo: **151169**
Client ID: **LCSS02**	Batch ID: **59620**	TestNo: **E904.0**	**E903-904**	Analysis Date: **9/28/2022**	SeqNo: **4019854**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.63	1.00	5.000	0	72.6	70	130	2.870	23.4	20	
Yield	0.760			0	0			1.000	27.3		

Sample ID: **RLCD-59620**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/19/2022**	RunNo: **151169**
Client ID: **BatchQC**	Batch ID: **59620**	TestNo: **E904.0**	**E903-904**	Analysis Date: **9/28/2022**	SeqNo: **4019857**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00	1.000	0	70.0	50	150				
Yield	1.00			0	0						

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22090086**

11-Oct-22

Client: TEKLAB Inc,

Project: 22081061 **BatchID:** **59620**

Sample ID: **22090083-001AMS** SampType: **MS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/19/2022** RunNo: **151169**

Client ID: **BatchQC** Batch ID: **59620** TestNo: **E904.0** **E903-904** Analysis Date: **9/28/2022** SeqNo: **4019858**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	5.22	1.00	5.000	0.8500	87.4	70	130				
Yield	0.650			1.000	0						

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22090086**

11-Oct-22

Client: TEKLAB Inc,
Project: 22081061 **BatchID:** **59620**

Sample ID: **22090086-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/19/2022**	RunNo: **151257**
Client ID: **22081061-001**	Batch ID: **59620**	TestNo: **E903.0**	**E903-904**	Analysis Date: **9/30/2022**	SeqNo: **4022516**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	0.900							0.9600	6.45	0	

Sample ID: **22090086-002ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/19/2022**	RunNo: **151257**
Client ID: **22081061-002**	Batch ID: **59620**	TestNo: **E903.0**	**E903-904**	Analysis Date: **9/30/2022**	SeqNo: **4022518**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	1.00							1.000	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22090086**

11-Oct-22

Client: TEKLAB Inc,
Project: 22081061 **BatchID:** **59620**

Sample ID: **MB-59620**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/19/2022**	RunNo: **151257**
Client ID: **PBW**	Batch ID: **59620**	TestNo: **E903.0**	**E903-904**	Analysis Date: **9/30/2022**	SeqNo: **4022506**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	0.920										

Sample ID: **LCS-59620**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/19/2022**	RunNo: **151257**
Client ID: **LCSW**	Batch ID: **59620**	TestNo: **E903.0**	**E903-904**	Analysis Date: **9/30/2022**	SeqNo: **4022507**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.42	1.00	5.000	0	108	70	130				

Sample ID: **RLC-59620**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/19/2022**	RunNo: **151257**
Client ID: **BatchQC**	Batch ID: **59620**	TestNo: **E903.0**	**E903-904**	Analysis Date: **9/30/2022**	SeqNo: **4022510**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.20	1.00	1.000	0	120	50	150				

Sample ID: **RLCD-59620**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/19/2022**	RunNo: **151257**
Client ID: **BatchQC**	Batch ID: **59620**	TestNo: **E903.0**	**E903-904**	Analysis Date: **9/30/2022**	SeqNo: **4022511**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22090086**

11-Oct-22

Client: TEKLAB Inc,
Project: 22081061 **BatchID:** **59620**

Sample ID: **RLCD-59620**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/19/2022**	RunNo: **151257**
Client ID: **BatchQC**	Batch ID: **59620**	TestNo: **E903.0**	**E903-904**	Analysis Date: **9/30/2022**	SeqNo: **4022511**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.11	1.00	1.000	0	111	50	150				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **22090086**

11-Oct-22

Client: TEKLAB Inc,
Project: 22081061 **BatchID:** **59674**

Sample ID: **MB-59674**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/21/2022**	RunNo: **151629**
Client ID: **PBW**	Batch ID: **59674**	TestNo: **E904.0**	**E903-904**	Analysis Date: **10/7/2022**	SeqNo: **4035726**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	0.950			0	0						

Sample ID: **LCSD-59674**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/21/2022**	RunNo: **151629**
Client ID: **LCSS02**	Batch ID: **59674**	TestNo: **E904.0**	**E903-904**	Analysis Date: **10/7/2022**	SeqNo: **4035728**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.83	1.00	5.000	0	76.6	70	130	1.950	65.1	20	
Yield	1.00			0	0			0.5500	58.1		

Sample ID: **RLCD-59674**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/21/2022**	RunNo: **151629**
Client ID: **BatchQC**	Batch ID: **59674**	TestNo: **E904.0**	**E903-904**	Analysis Date: **10/7/2022**	SeqNo: **4035731**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.17	1.00	1.000	0	117	50	150				
Yield	1.00			0	0						

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22090086**

11-Oct-22

Client: TEKLAB Inc,
Project: 22081061 **BatchID:** **59674**

Sample ID: **22090315-001AMS**	SampType: **MS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/21/2022**	RunNo: **151629**
Client ID: **BatchQC**	Batch ID: **59674**	TestNo: **E904.0**	**E903-904**	Analysis Date: **10/7/2022**	SeqNo: **4035732**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.71	1.00	5.000	0	74.2	70	130				
Yield	0.740			1.000	0						

Sample ID: **22090381-001ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/21/2022**	RunNo: **151629**
Client ID: **BatchQC**	Batch ID: **59674**	TestNo: **E904.0**	**E903-904**	Analysis Date: **10/7/2022**	SeqNo: **4035746**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	0.970			0	0			0.8700	10.9		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **22090086**

11-Oct-22

Client: TEKLAB Inc,
Project: 22081061 **BatchID:** **59674**

Sample ID: **MB-59674**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/21/2022**	RunNo: **151642**
Client ID: **PBW**	Batch ID: **59674**	TestNo: **E903.0**	**E903-904**	Analysis Date: **10/8/2022**	SeqNo: **4036069**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	ND										

Sample ID: **LCS-59674**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/21/2022**	RunNo: **151642**
Client ID: **LCSW**	Batch ID: **59674**	TestNo: **E903.0**	**E903-904**	Analysis Date: **10/8/2022**	SeqNo: **4036070**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.91	1.00	5.000	0	118	70	130				

Sample ID: **LCSD-59674**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/21/2022**	RunNo: **151642**
Client ID: **LCSS02**	Batch ID: **59674**	TestNo: **E903.0**	**E903-904**	Analysis Date: **10/8/2022**	SeqNo: **4036071**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.17	1.00	5.000	0	103	70	130	5.910	13.4	20	

Sample ID: **RLC-59674**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/21/2022**	RunNo: **151642**
Client ID: **BatchQC**	Batch ID: **59674**	TestNo: **E903.0**	**E903-904**	Analysis Date: **10/8/2022**	SeqNo: **4036073**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22090086**
11-Oct-22

Client: TEKLAB Inc,
Project: 22081061 **BatchID:** **59674**

Sample ID: **RLC-59674** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/21/2022** RunNo: **151642**
Client ID: **BatchQC** Batch ID: **59674** TestNo: **E903.0** **E903-904** Analysis Date: **10/8/2022** SeqNo: **4036073**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.11	1.00	1.000	0	111	50	150				

Sample ID: **RLCD-59674** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/21/2022** RunNo: **151642**
Client ID: **BatchQC** Batch ID: **59674** TestNo: **E903.0** **E903-904** Analysis Date: **10/8/2022** SeqNo: **4036074**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.12	1.00	1.000	0	112	50	150				

Sample ID: **22090315-001AMS** SampType: **MS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/21/2022** RunNo: **151642**
Client ID: **BatchQC** Batch ID: **59674** TestNo: **E903.0** **E903-904** Analysis Date: **10/8/2022** SeqNo: **4036075**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.51	1.00	5.000	0	110	70	130				

Sample ID: **22090347-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/21/2022** RunNo: **151642**
Client ID: **BatchQC** Batch ID: **59674** TestNo: **E903.0** **E903-904** Analysis Date: **10/8/2022** SeqNo: **4036084**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **22090086**

11-Oct-22

Client: TEKLAB Inc,
Project: 22081061 **BatchID:** **59674**

Sample ID: **22090347-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/21/2022**	RunNo: **151642**
Client ID: **BatchQC**	Batch ID: **59674**	TestNo: **E903.0**	**E903-904**	Analysis Date: **10/8/2022**	SeqNo: **4036084**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Yield	ND							0	0	0	

Sample ID: **22090381-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/21/2022**	RunNo: **151642**
Client ID: **BatchQC**	Batch ID: **59674**	TestNo: **E903.0**	**E903-904**	Analysis Date: **10/8/2022**	SeqNo: **4036087**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	ND							0	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Pg ___ of ___

TEKLAB, INC. Chain of Custody

22090086

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: Client | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium (226 and 228) by method EPA903.0/904.0
on your standard turnaround time.
Batch QC is required with the report. Receipt summary requested. State of Origin: IL

Project# 22081061

Contact: Shelly A. Hennessy | Email: SHennessy@TekLabInc.com

Requested Due Date: 20 business days or less | Billing/PO: 33267 | Phone: (618) 344-1004

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Any changes to analysis/methods must be approved by Teklab, Inc.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226	Radium 228											pH	PPM
	22081061-001	8/23/22 1145	HNO3	Aqueous	✔	✔											1	24,28
	22081061-002	8/23/22 1056	HNO3	Aqueous	✔	✔											1	30,25
	22081061-003	8/23/22 1029	HNO3	Aqueous	✔	✔											1	23,14
	22081061-004	8/23/22 1005	HNO3	Aqueous	✔	✔											1	15,19
	22081061-005	8/23/22 1444	HNO3	Aqueous	✔	✔											1	17,27
	22081061-006	8/23/22 1508	HNO3	Aqueous	✔	✔											1	21,23
	22081061-007	8/23/22 1408	HNO3	Aqueous	✔	✔											1	9,3.2
	22081061-008	8/23/22 1149	HNO3	Aqueous	✔	✔											1	25,21
	22081061-009	8/23/22 1309	HNO3	Aqueous	✔	✔											1	33,13
	22081061-010	8/25/22 1249	HNO3	Aqueous	✔	✔											1	30,27
	22081061-011	8/23/22 1245	HNO3	Aqueous	✔	✔											1	23,6

*Relinquished By	Date/Time	Received By	Date/Time
Brennan Willis	8/24/22 1800	Fed ex	
			8-31-22/1450

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SubCocRevA
3/2/2016

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: Client | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium (226 and 228) by method EPA903.0/904.0
on your standard turnaround time.
Batch QC is required with the report. Receipt summary requested. State of Origin: IL

Project# 22081061

Contact: Shelly A. Hennessy | Email: SHennessy@TekLabInc.com
Requested Due Date: 20 business days or less | Billing/PO: 33267
Phone: (618) 344-1004

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Any changes to analysis/methods must be approved by Teklab, Inc.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226	Radium 228											OH	CPM
	22081061-012	8/25/22 1405	HNO3	Aqueous	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	14	6, 10
	22081061-013	8/25/22 1411	HNO3	Aqueous	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	14	33, 23
	22081061-014	8/25/22 1351	HNO3	Aqueous	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	11	22, 3
	22081061-015	8/24/22 1709	HNO3	Aqueous	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	1	23, 6
			Unpres	Aqueous	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
			Unpres	Aqueous	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
			Unpres	Aqueous	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
			Unpres	Aqueous	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
			Unpres	Aqueous	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
			Unpres	Aqueous	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
			Unpres	Aqueous	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
			Unpres	Aqueous	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		

*Relinquished By	Date/Time	Received By	Date/Time
Roannan Willis	8/29/22 1800	Fedex	
			8-30-22 / 1450

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights,

SubCocRevA

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **22090086** RcptNo: **1**

Logged by:	**Anthony W. Britton**	**8/31/2022 2:50:00 PM**	Anthony Britton
Completed By:	**Anthony W. Britton**	**9/1/2022 5:41:25 PM**	Anthony Britton
Reviewed By:	**Jennifer Woolf**	**9/6/2022 1:02:42 PM**	Jennifer Woolf

Chain of Custody

1.	Were seals intact?	Yes ☑	No ☐	Not Present ☐
2.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3.	How was the sample delivered?	FedEx		

Log In

4.	Coolers are present?	Yes ☐	No ☑	NA ☐
5.	Was an attempt made to cool the samples?	Yes ☐	No ☑	NA ☐
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☑	NA ☐
		Not required		
7.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
8.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
9.	Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
10.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
11.	Is the headspace in the VOA vials less than 1/4 inch or 6 mm?	Yes ☐	No ☐	No VOA Vials ☑
12.	Were any sample containers received broken?	Yes ☐	No ☑	
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
14.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
15.	Is it clear what analyses were requested?	Yes ☑	No ☐	
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	19.0	Good	Not Present			
2	18.2	Good	Not Present			
3	18.8	Good	Not Present			

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Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **22090086** RcptNo: **1**

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
4	17.8	Good	Not Present			

November 2022 Laboratory Analytical Report

December 19, 2022

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 22110359

Dear Eric Staley:

TEKLAB, INC received 15 samples on 11/10/2022 8:20:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 22110359
Report Date: 19-Dec-22

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	23
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 22110359

Client Project: Ash Pond Monitoring Wells **Report Date:** 19-Dec-22

Abbr Definition

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power

Work Order: 22110359

Client Project: Ash Pond Monitoring Wells

Report Date: 19-Dec-22

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 22110359
Report Date: 19-Dec-22

Cooler Receipt Temp: 4.8 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 and Radium-228 analysis was performed by Pace Analytical National. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 22110359
Report Date: 19-Dec-22

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2023	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2023	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2023	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2023	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2023	Collinsville
Arkansas	ADEQ	88-0966		3/14/2023	Collinsville
Illinois	IDPH	17584		5/31/2023	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2023	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: City Water, Light & Power **Work Order:** 22110359

Client Project: Ash Pond Monitoring Wells **Report Date:** 19-Dec-22

Lab ID: 22110359-001 **Client Sample ID:** RW-3

Matrix: GROUNDWATER **Collection Date:** 11/08/2022 13:33

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	11/08/2022 13:33	R321096
Depth to water	*	-5.00		**8.09**	ft	1	11/08/2022 13:33	R321096
Depth to water from measuring point	*	0		**10.79**	ft	1	11/08/2022 13:33	R321096
Elevation of groundwater surface	*	0		**528.71**	ft	1	11/08/2022 13:33	R321096
Measuring Point Elevation	*	0		**539.50**	ft	1	11/08/2022 13:33	R321096
Measuring Point Height Above Land Surface	*	0		**2.70**	ft	1	11/08/2022 13:33	R321096
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**< 1.0**	NTU	1	11/08/2022 13:33	R321096
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.5**	°F	1	11/08/2022 13:33	R321096
SW-846 9040B								
pH, Field	*	1.00		**7.21**		1	11/08/2022 13:33	R321096
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1030**	µmhos/cm @25C	1	11/08/2022 13:33	R321096
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**425**	mg/L	2.5	11/15/2022 7:05	R321202
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10	S	**< 10**	mg/L	1	11/23/2022 10:36	R321591
Matrix spike did not recover within control limits. Results verified by reanalysis at dilution.								
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.43**	mg/L	1	11/14/2022 14:43	R321052
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**30**	mg/L	1	11/23/2022 10:36	R321589
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**0.142**	mg/L	1	11/14/2022 17:54	199975
Barium	NELAP	0.0025		**0.166**	mg/L	1	11/14/2022 17:54	199975
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/14/2022 17:54	199975
Boron	NELAP	0.0200		**0.192**	mg/L	1	11/16/2022 21:05	199975
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/14/2022 17:54	199975
Calcium	NELAP	0.100		**72.7**	mg/L	1	11/14/2022 17:54	199975
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/14/2022 17:54	199975
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/14/2022 17:54	199975
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	11/14/2022 17:54	199975
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	11/14/2022 17:54	199975
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/14/2022 17:54	199975
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2022 11:17	199975
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2022 11:17	199975
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/15/2022 11:17	199975
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2022 21:27	199972
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/06/2022 0:00	R322549
Radium-228	*	0		**See Attached**	pci/L	1	12/06/2022 0:00	R322549

Client: City Water, Light & Power
Work Order: 22110359
Client Project: Ash Pond Monitoring Wells
Report Date: 19-Dec-22
Lab ID: 22110359-002
Client Sample ID: AP-1
Matrix: GROUNDWATER
Collection Date: 11/08/2022 11:11

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**504.29**	ft	1	11/08/2022 11:11	R321096
Depth to water	*	-5.00		**7.83**	ft	1	11/08/2022 11:11	R321096
Depth to water from measuring point	*	0		**10.10**	ft	1	11/08/2022 11:11	R321096
Elevation of groundwater surface	*	0		**525.27**	ft	1	11/08/2022 11:11	R321096
Measuring Point Elevation	*	0		**535.37**	ft	1	11/08/2022 11:11	R321096
Measuring Point Height Above Land Surface	*	0		**2.27**	ft	1	11/08/2022 11:11	R321096
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**< 1.0**	NTU	1	11/08/2022 11:11	R321096
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.0**	°F	1	11/08/2022 11:11	R321096
SW-846 9040B								
pH, Field	*	1.00		**6.68**		1	11/08/2022 11:11	R321096
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**2530**	µmhos/cm @25C	1	11/08/2022 11:11	R321096
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1540**	mg/L	2.5	11/15/2022 7:06	R321202
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**777**	mg/L	20	11/23/2022 11:16	R321591
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.18**	mg/L	1	11/14/2022 14:45	R321052
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**61**	mg/L	5	11/23/2022 11:10	R321589
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/14/2022 17:57	199975
Barium	NELAP	0.0025		**0.285**	mg/L	1	11/14/2022 17:57	199975
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/14/2022 17:57	199975
Boron	NELAP	0.200		**21.4**	mg/L	10	11/17/2022 15:48	199975
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/14/2022 17:57	199975
Calcium	NELAP	0.100		**242**	mg/L	1	11/14/2022 17:57	199975
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/14/2022 17:57	199975
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/14/2022 17:57	199975
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	11/14/2022 17:57	199975
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	11/14/2022 17:57	199975
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/14/2022 17:57	199975
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2022 11:24	199975
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2022 11:24	199975
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/15/2022 11:24	199975
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2022 21:39	199972
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/06/2022 0:00	R322549
Radium-228	*	0		**See Attached**	pci/L	1	12/06/2022 0:00	R322549

Client: City Water, Light & Power
Work Order: 22110359
Client Project: Ash Pond Monitoring Wells
Report Date: 19-Dec-22
Lab ID: 22110359-003
Client Sample ID: AP-2
Matrix: GROUNDWATER
Collection Date: 11/08/2022 10:56

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.77**	ft	1	11/08/2022 10:56	R321096
Depth to water	*	-5.00		**5.36**	ft	1	11/08/2022 10:56	R321096
Depth to water from measuring point	*	0		**7.86**	ft	1	11/08/2022 10:56	R321096
Elevation of groundwater surface	*	0		**528.24**	ft	1	11/08/2022 10:56	R321096
Measuring Point Elevation	*	0		**536.10**	ft	1	11/08/2022 10:56	R321096
Measuring Point Height Above Land Surface	*	0		**2.50**	ft	1	11/08/2022 10:56	R321096
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**< 1.0**	NTU	1	11/08/2022 10:56	R321096
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.4**	°F	1	11/08/2022 10:56	R321096
SW-846 9040B								
pH, Field	*	1.00		**6.52**		1	11/08/2022 10:56	R321096
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**2170**	µmhos/cm @25C	1	11/08/2022 10:56	R321096
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1310**	mg/L	1	11/15/2022 7:06	R321202
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**643**	mg/L	20	11/23/2022 11:24	R321591
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.22**	mg/L	1	11/14/2022 14:48	R321052
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**34**	mg/L	1	11/23/2022 11:18	R321589
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/14/2022 18:01	199975
Barium	NELAP	0.0025		**0.0734**	mg/L	1	11/14/2022 18:01	199975
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/14/2022 18:01	199975
Boron	NELAP	0.0200		**4.08**	mg/L	1	11/17/2022 16:05	199975
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/14/2022 18:01	199975
Calcium	NELAP	0.100		**248**	mg/L	1	11/14/2022 18:01	199975
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/14/2022 18:01	199975
Cobalt	NELAP	0.0050		**0.0111**	mg/L	1	11/14/2022 18:01	199975
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	11/14/2022 18:01	199975
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	11/14/2022 18:01	199975
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/14/2022 18:01	199975
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2022 11:30	199975
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2022 11:30	199975
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/15/2022 11:30	199975
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2022 21:41	199972
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/06/2022 0:00	R322549
Radium-228	*	0		**See Attached**	pci/L	1	12/06/2022 0:00	R322549

Client: City Water, Light & Power
Work Order: 22110359
Client Project: Ash Pond Monitoring Wells
Report Date: 19-Dec-22
Lab ID: 22110359-004
Client Sample ID: AP-3
Matrix: GROUNDWATER
Collection Date: 11/08/2022 10:40

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.45**	ft	1	11/08/2022 10:40	R321096
Depth to water	*	-5.00		**8.06**	ft	1	11/08/2022 10:40	R321096
Depth to water from measuring point	*	0		**9.76**	ft	1	11/08/2022 10:40	R321096
Elevation of groundwater surface	*	0		**525.64**	ft	1	11/08/2022 10:40	R321096
Measuring Point Elevation	*	0		**535.40**	ft	1	11/08/2022 10:40	R321096
Measuring Point Height Above Land Surface	*	0		**1.70**	ft	1	11/08/2022 10:40	R321096
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**< 1.0**	NTU	1	11/08/2022 10:40	R321096
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.8**	°F	1	11/08/2022 10:40	R321096
SW-846 9040B								
pH, Field	*	1.00		**6.65**		1	11/08/2022 10:40	R321096
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1680**	µmhos/cm @25C	1	11/08/2022 10:40	R321096
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**920**	mg/L	2.5	11/15/2022 7:06	R321202
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**444**	mg/L	20	11/23/2022 11:31	R321591
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.21**	mg/L	1	11/14/2022 15:00	R321052
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**55**	mg/L	5	11/23/2022 11:26	R321589
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/14/2022 19:15	199975
Barium	NELAP	0.0025		**0.0951**	mg/L	1	11/14/2022 19:15	199975
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/14/2022 19:15	199975
Boron	NELAP	0.200		**14.6**	mg/L	10	11/17/2022 15:45	199975
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/14/2022 19:15	199975
Calcium	NELAP	0.100		**160**	mg/L	1	11/14/2022 19:15	199975
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/14/2022 19:15	199975
Cobalt	NELAP	0.0050		**0.0054**	mg/L	1	11/14/2022 19:15	199975
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	11/14/2022 19:15	199975
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	11/14/2022 19:15	199975
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/14/2022 19:15	199975
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2022 11:37	199975
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2022 11:37	199975
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/15/2022 11:37	199975
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2022 21:43	199972
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/06/2022 0:00	R322549
Radium-228	*	0		**See Attached**	pci/L	1	12/06/2022 0:00	R322549

Client: City Water, Light & Power
Work Order: 22110359
Client Project: Ash Pond Monitoring Wells
Report Date: 19-Dec-22
Lab ID: 22110359-005
Client Sample ID: AP-4
Matrix: GROUNDWATER
Collection Date: 11/08/2022 12:51

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.79**	ft	1	11/08/2022 12:51	R321096
Depth to water	*	-5.00		**3.52**	ft	1	11/08/2022 12:51	R321096
Depth to water from measuring point	*	0		**8.82**	ft	1	11/08/2022 12:51	R321096
Elevation of groundwater surface	*	0		**550.38**	ft	1	11/08/2022 12:51	R321096
Measuring Point Elevation	*	0		**559.20**	ft	1	11/08/2022 12:51	R321096
Measuring Point Height Above Land Surface	*	0		**5.30**	ft	1	11/08/2022 12:51	R321096
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**31**	NTU	1	11/08/2022 12:51	R321096
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.3**	°F	1	11/08/2022 12:51	R321096
SW-846 9040B								
pH, Field	*	1.00		**6.95**		1	11/08/2022 12:51	R321096
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1210**	µmhos/cm @25C	1	11/08/2022 12:51	R321096
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**495**	mg/L	2.5	11/15/2022 7:07	R321202
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	11/23/2022 14:57	R321591
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.13**	mg/L	1	11/14/2022 15:02	R321052
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**14**	mg/L	1	11/23/2022 11:34	R321589
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**0.0270**	mg/L	1	11/14/2022 19:19	199975
Barium	NELAP	0.0025		**0.399**	mg/L	1	11/14/2022 19:19	199975
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/14/2022 19:19	199975
Boron	NELAP	0.0200		**0.102**	mg/L	1	11/16/2022 21:09	199975
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/14/2022 19:19	199975
Calcium	NELAP	0.100		**121**	mg/L	1	11/14/2022 19:19	199975
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/14/2022 19:19	199975
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/14/2022 19:19	199975
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	11/14/2022 19:19	199975
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	11/14/2022 19:19	199975
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/14/2022 19:19	199975
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2022 11:43	199975
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2022 11:43	199975
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/15/2022 11:43	199975
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2022 21:46	199972
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/06/2022 0:00	R322549
Radium-228	*	0		**See Attached**	pci/L	1	12/06/2022 0:00	R322549

Client: City Water, Light & Power **Work Order:** 22110359

Client Project: Ash Pond Monitoring Wells **Report Date:** 19-Dec-22

Lab ID: 22110359-006 **Client Sample ID:** AP-5

Matrix: GROUNDWATER **Collection Date:** 11/08/2022 12:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**552.63**	ft	1	11/08/2022 12:20	R321096
Depth to water	*	-5.00		**9.40**	ft	1	11/08/2022 12:20	R321096
Depth to water from measuring point	*	0		**11.70**	ft	1	11/08/2022 12:20	R321096
Elevation of groundwater surface	*	0		**572.20**	ft	1	11/08/2022 12:20	R321096
Measuring Point Elevation	*	0		**583.90**	ft	1	11/08/2022 12:20	R321096
Measuring Point Height Above Land Surface	*	0		**2.30**	ft	1	11/08/2022 12:20	R321096
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**< 1.0**	NTU	1	11/08/2022 12:20	R321096
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.3**	°F	1	11/08/2022 12:20	R321096
SW-846 9040B								
pH, Field	*	1.00		**7.16**		1	11/08/2022 12:20	R321096
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**805**	µmhos/cm @25C	1	11/08/2022 12:20	R321096
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**358**	mg/L	1	11/15/2022 7:07	R321202
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10	S	**36**	mg/L	1	11/23/2022 11:45	R321591
Matrix spike did not recover within control limits due to matrix interference.								
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.31**	mg/L	1	11/14/2022 15:05	R321052
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**< 4**	mg/L	1	11/23/2022 11:45	R321589
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/14/2022 19:23	199975
Barium	NELAP	0.0025		**0.0420**	mg/L	1	11/14/2022 19:23	199975
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/14/2022 19:23	199975
Boron	NELAP	0.0200		**0.0450**	mg/L	1	11/16/2022 21:13	199975
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/14/2022 19:23	199975
Calcium	NELAP	0.100		**80.2**	mg/L	1	11/14/2022 19:23	199975
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/14/2022 19:23	199975
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/14/2022 19:23	199975
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	11/14/2022 19:23	199975
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	11/14/2022 19:23	199975
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/14/2022 19:23	199975
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2022 11:49	199975
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2022 11:49	199975
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/15/2022 11:49	199975
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2022 21:48	199972
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	11/25/2022 0:00	R322549
Radium-228	*	0		**See Attached**	pci/L	1	11/25/2022 0:00	R322549

Client: City Water, Light & Power
Work Order: 22110359
Client Project: Ash Pond Monitoring Wells
Report Date: 19-Dec-22
Lab ID: 22110359-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 11/08/2022 11:47

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.20**	ft	1	11/08/2022 11:47	R321096
Depth to water	*	-5.00		**6.78**	ft	1	11/08/2022 11:47	R321096
Depth to water from measuring point	*	0		**9.20**	ft	1	11/08/2022 11:47	R321096
Elevation of groundwater surface	*	0		**528.62**	ft	1	11/08/2022 11:47	R321096
Measuring Point Elevation	*	0		**537.82**	ft	1	11/08/2022 11:47	R321096
Measuring Point Height Above Land Surface	*	0		**2.42**	ft	1	11/08/2022 11:47	R321096
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.2**	NTU	1	11/08/2022 11:47	R321096
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.1**	°F	1	11/08/2022 11:47	R321096
SW-846 9040B								
pH, Field	*	1.00		**7.14**		1	11/08/2022 11:47	R321096
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**861**	µmhos/cm @25C	1	11/08/2022 11:47	R321096
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**348**	mg/L	1	11/15/2022 7:07	R321202
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**13**	mg/L	1	11/23/2022 12:22	R321591
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.40**	mg/L	1	11/14/2022 15:07	R321052
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**31**	mg/L	1	11/23/2022 12:22	R321589
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/14/2022 19:26	199975
Barium	NELAP	0.0025		**0.135**	mg/L	1	11/14/2022 19:26	199975
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/14/2022 19:26	199975
Boron	NELAP	0.0200		**0.166**	mg/L	1	11/16/2022 21:16	199975
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/14/2022 19:26	199975
Calcium	NELAP	0.100		**57.8**	mg/L	1	11/14/2022 19:26	199975
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/14/2022 19:26	199975
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/14/2022 19:26	199975
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	11/14/2022 19:26	199975
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	11/14/2022 19:26	199975
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/14/2022 19:26	199975
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2022 11:56	199975
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2022 11:56	199975
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/15/2022 11:56	199975
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2022 21:50	199972
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	11/25/2022 0:00	R322549
Radium-228	*	0		**See Attached**	pci/L	1	11/25/2022 0:00	R322549

Client: City Water, Light & Power **Work Order:** 22110359

Client Project: Ash Pond Monitoring Wells **Report Date:** 19-Dec-22

Lab ID: 22110359-008 **Client Sample ID:** AP-7

Matrix: GROUNDWATER **Collection Date:** 11/09/2022 9:04

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**496.50**	ft	1	11/09/2022 9:04	R321096
Depth to water	*	-5.00		**8.86**	ft	1	11/09/2022 9:04	R321096
Depth to water from measuring point	*	0		**11.52**	ft	1	11/09/2022 9:04	R321096
Elevation of groundwater surface	*	0		**527.50**	ft	1	11/09/2022 9:04	R321096
Measuring Point Elevation	*	0		**539.02**	ft	1	11/09/2022 9:04	R321096
Measuring Point Height Above Land Surface	*	0		**2.66**	ft	1	11/09/2022 9:04	R321096
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**< 1.0**	NTU	1	11/09/2022 9:04	R321096
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.6**	°F	1	11/09/2022 9:04	R321096
SW-846 9040B								
pH, Field	*	1.00		**7.17**		1	11/09/2022 9:04	R321096
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**959**	µmhos/cm @25C	1	11/09/2022 9:04	R321096
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**348**	mg/L	1	11/15/2022 7:07	R321202
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**13**	mg/L	1	11/23/2022 12:30	R321591
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.39**	mg/L	1	11/14/2022 15:09	R321052
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**58**	mg/L	5	11/23/2022 12:36	R321589
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/14/2022 19:30	199975
Barium	NELAP	0.0025		**0.130**	mg/L	1	11/14/2022 19:30	199975
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/14/2022 19:30	199975
Boron	NELAP	0.0200		**0.260**	mg/L	1	11/17/2022 9:35	199975
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/14/2022 19:30	199975
Calcium	NELAP	0.100	S	**44.8**	mg/L	1	11/14/2022 19:30	199975
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/14/2022 19:30	199975
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/14/2022 19:30	199975
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	11/14/2022 19:30	199975
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	11/14/2022 19:30	199975
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/14/2022 19:30	199975
Matrix spike control limits for Ca are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/19/2022 2:52	199975
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/21/2022 14:36	199975
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/19/2022 2:52	199975
CCV recovered outside the upper control limits Se. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2022 21:52	199972
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	11/25/2022 0:00	R322549

Client: City Water, Light & Power
Work Order: 22110359
Client Project: Ash Pond Monitoring Wells
Report Date: 19-Dec-22
Lab ID: 22110359-008
Client Sample ID: AP-7
Matrix: GROUNDWATER
Collection Date: 11/09/2022 9:04

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	11/25/2022 0:00	R322549

Client: City Water, Light & Power
Work Order: 22110359
Client Project: Ash Pond Monitoring Wells
Report Date: 19-Dec-22
Lab ID: 22110359-009
Client Sample ID: AP-8
Matrix: GROUNDWATER
Collection Date: 11/08/2022 11:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.60**	ft	1	11/08/2022 11:30	R321096
Depth to water	*	-5.00		**3.75**	ft	1	11/08/2022 11:30	R321096
Depth to water from measuring point	*	0		**6.65**	ft	1	11/08/2022 11:30	R321096
Elevation of groundwater surface	*	0		**530.55**	ft	1	11/08/2022 11:30	R321096
Measuring Point Elevation	*	0		**537.20**	ft	1	11/08/2022 11:30	R321096
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	11/08/2022 11:30	R321096
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**9.7**	NTU	1	11/08/2022 11:30	R321096
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.3**	°F	1	11/08/2022 11:30	R321096
SW-846 9040B								
pH, Field	*	1.00		**6.99**		1	11/08/2022 11:30	R321096
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1290**	µmhos/cm @25C	1	11/08/2022 11:30	R321096
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**505**	mg/L	2.5	11/15/2022 7:08	R321202
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	11/23/2022 12:38	R321591
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.27**	mg/L	1	11/14/2022 15:10	R321052
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**26**	mg/L	1	11/23/2022 12:38	R321589
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**0.0340**	mg/L	1	11/14/2022 19:41	199975
Barium	NELAP	0.0025		**0.371**	mg/L	1	11/14/2022 19:41	199975
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/14/2022 19:41	199975
Boron	NELAP	0.0200		**0.0927**	mg/L	1	11/16/2022 21:20	199975
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/14/2022 19:41	199975
Calcium	NELAP	0.100		**100**	mg/L	1	11/14/2022 19:41	199975
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/14/2022 19:41	199975
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/14/2022 19:41	199975
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	11/14/2022 19:41	199975
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	11/14/2022 19:41	199975
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/14/2022 19:41	199975
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/13/2022 4:26	199975
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/13/2022 4:26	199975
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/13/2022 4:26	199975
CCV recovered outside the upper control limits for Se and TL. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2022 21:55	199972
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	11/25/2022 0:00	R322549
Radium-228	*	0		**See Attached**	pci/L	1	11/25/2022 0:00	R322549

Client: City Water, Light & Power
Work Order: 22110359
Client Project: Ash Pond Monitoring Wells
Report Date: 19-Dec-22
Lab ID: 22110359-011
Client Sample ID: AP-10
Matrix: GROUNDWATER
Collection Date: 11/08/2022 10:09

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**499.43**	ft	1	11/08/2022 10:09	R321096
Depth to water	*	-5.00		**1.46**	ft	1	11/08/2022 10:09	R321096
Depth to water from measuring point	*	0		**4.56**	ft	1	11/08/2022 10:09	R321096
Elevation of groundwater surface	*	0		**532.94**	ft	1	11/08/2022 10:09	R321096
Measuring Point Elevation	*	0		**537.50**	ft	1	11/08/2022 10:09	R321096
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	11/08/2022 10:09	R321096
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**9.9**	NTU	1	11/08/2022 10:09	R321096
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.5**	°F	1	11/08/2022 10:09	R321096
SW-846 9040B								
pH, Field	*	1.00		**6.76**		1	11/08/2022 10:09	R321096
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1640**	µmhos/cm @25C	1	11/08/2022 10:09	R321096
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**730**	mg/L	2.5	11/15/2022 7:08	R321202
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**96**	mg/L	5	11/23/2022 13:15	R321591
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.30**	mg/L	1	11/14/2022 15:15	R321052
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**28**	mg/L	1	11/23/2022 13:10	R321589
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/14/2022 20:03	199975
Barium	NELAP	0.0025		**0.570**	mg/L	1	11/14/2022 20:03	199975
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/14/2022 20:03	199975
Boron	NELAP	0.0200		**3.35**	mg/L	1	11/17/2022 16:00	199975
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/14/2022 20:03	199975
Calcium	NELAP	0.100		**142**	mg/L	1	11/14/2022 20:03	199975
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/14/2022 20:03	199975
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/14/2022 20:03	199975
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	11/14/2022 20:03	199975
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	11/14/2022 20:03	199975
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/14/2022 20:03	199975
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/13/2022 5:43	199975
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/13/2022 5:43	199975
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/13/2022 5:43	199975
CCV recovered outside the upper control limits for Se and TL. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2022 21:59	199972
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	11/25/2022 0:00	R322549
Radium-228	*	0		**See Attached**	pci/L	1	11/25/2022 0:00	R322549

Client: City Water, Light & Power **Work Order:** 22110359

Client Project: Ash Pond Monitoring Wells **Report Date:** 19-Dec-22

Lab ID: 22110359-015 **Client Sample ID:** AP-14

Matrix: GROUNDWATER **Collection Date:** 11/08/2022 13:16

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**508.40**	ft	1	11/08/2022 13:16	R321096
Depth to water	*	-5.00		**-0.79**	ft	1	11/08/2022 13:16	R321096
Depth to water from measuring point	*	0		**2.01**	ft	1	11/08/2022 13:16	R321096
Elevation of groundwater surface	*	0		**537.59**	ft	1	11/08/2022 13:16	R321096
Measuring Point Elevation	*	0		**539.60**	ft	1	11/08/2022 13:16	R321096
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	11/08/2022 13:16	R321096
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**41**	NTU	1	11/08/2022 13:16	R321096
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.6**	°F	1	11/08/2022 13:16	R321096
SW-846 9040B								
pH, Field	*	1.00		**7.05**		1	11/08/2022 13:16	R321096
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**2190**	µmhos/cm @25C	1	11/08/2022 13:16	R321096
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1380**	mg/L	2.5	11/15/2022 7:09	R321202
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**736**	mg/L	20	11/23/2022 14:03	R321591
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.26**	mg/L	1	11/14/2022 15:33	R321052
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**65**	mg/L	5	11/23/2022 13:58	R321589
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/14/2022 20:18	199975
Barium	NELAP	0.0025		**0.0438**	mg/L	1	11/14/2022 20:18	199975
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/14/2022 20:18	199975
Boron	NELAP	0.200		**21.3**	mg/L	10	11/17/2022 15:52	199975
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/14/2022 20:18	199975
Calcium	NELAP	0.100		**236**	mg/L	1	11/14/2022 20:18	199975
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/14/2022 20:18	199975
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/14/2022 20:18	199975
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	11/14/2022 20:18	199975
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	11/14/2022 20:18	199975
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/14/2022 20:18	199975
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/13/2022 5:24	199975
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/13/2022 5:24	199975
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/13/2022 5:24	199975
CCV recovered outside the upper control limits for Se and TL. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2022 22:13	199972
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	11/25/2022 0:00	R322549
Radium-228	*	0		**See Attached**	pci/L	1	11/25/2022 0:00	R322549

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 22110359
Report Date: 19-Dec-22

Carrier: Joseph Riley

Completed by: Timothy W. Mathis
On: 10-Nov-22

Received By: ERH

Reviewed by: Shelly A. Hennessy
On: 11-Nov-22

Pages to follow: Chain of custody 2 Extra pages included 30

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 4.8
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

pH strip #83856 PRY. - TMathis - 11/10/2022 4:08:42 PM

Print PDF

CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 22110359

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power

Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building

City/State/Zip: Springfield IL 62712

Contact: Eric Staley Phone: (217) 757-8610

Email: eric.staley@cwlp.com Fax:

Samples on: ☑ ICE ☐ BLUE ICE ☐ NO ICE 4.8 °C UTG1

Preserved in: ☐ LAB ☑ FIELD

FOR LAB USE ONLY

LAB NOTES: PM/ 83856. PAT 11/10/22

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No

Are these samples known to be hazardous? ☐ Yes ☑ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☑ No Permit on file

Client Comments:

*elevations, pH, conductivity, temperature

**Sb Se Tl (ICPMS) As Ba Be B Cd Ca Cr Co Pb Li Hg Mo

Quarterly monitoring

PROJECT NAME/NUMBER

Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME

J. RILEY C. Collins

RESULTS REQUESTED

☑ Standard ☐ 1-2 Day (100% Surcharge)

☐ Other ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	CL F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
22110359 001	RW-3	11/8/22 1333 ~~1334~~ JR	Groundwater	1	3								✔	✔	✔	✔	✔	✔
002	AP-1	11/8/22 1111	Groundwater	1	3								✔	✔	✔	✔	✔	✔
003	AP-2	11/8/22 1056	Groundwater	1	3								✔	✔	✔	✔	✔	✔
004	AP-3	11/8/22 1040	Groundwater	1	3								✔	✔	✔	✔	✔	✔
005	AP-4	11/8/22 1251	Groundwater	1	3								✔	✔	✔	✔	✔	✔
006	AP-5	11/8/22 1220	Groundwater	1	3								✔	✔	✔	✔	✔	✔
007	AP-6	11/8/22 1147	Groundwater	1	3								✔	✔	✔	✔	✔	✔
008	AP-7	11/9/22 904	Groundwater	1	3								✔	✔	✔	✔	✔	✔
009	AP-8	11/8/22 1130	Groundwater	1	3								✔	✔	✔	✔	✔	✔
010	AP-9	11/9/22 926	Groundwater	1	3								✔	✔	✔	✔	✔	✔
011	AP-10	11/8/22 1009	Groundwater	1	3								✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
	11/10/22 0820	Ellie Hopkins	11/10/22 0820

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

PAT 11/10/22

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 22110359

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb Se Tl (ICPMS) As Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
012	AP-11	11/9/22 1012	Groundwater	1	3								✔	✔	✔	✔	✔	✔
013	AP-12	1029	Groundwater	1	3								✔	✔	✔	✔	✔	✔
014	AP-13	1043	Groundwater	1	3								✔	✔	✔	✔	✔	✔
015	AP-14	11/8/22 1316	Groundwater	1	3								✔	✔	✔	✔	✔	✔
			Groundwater										✔	✔	✔	✔	✔	✔
			Groundwater										✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
	11/10/22 0820		11/10/22 0820

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

ANALYTICAL REPORT

December 14, 2022

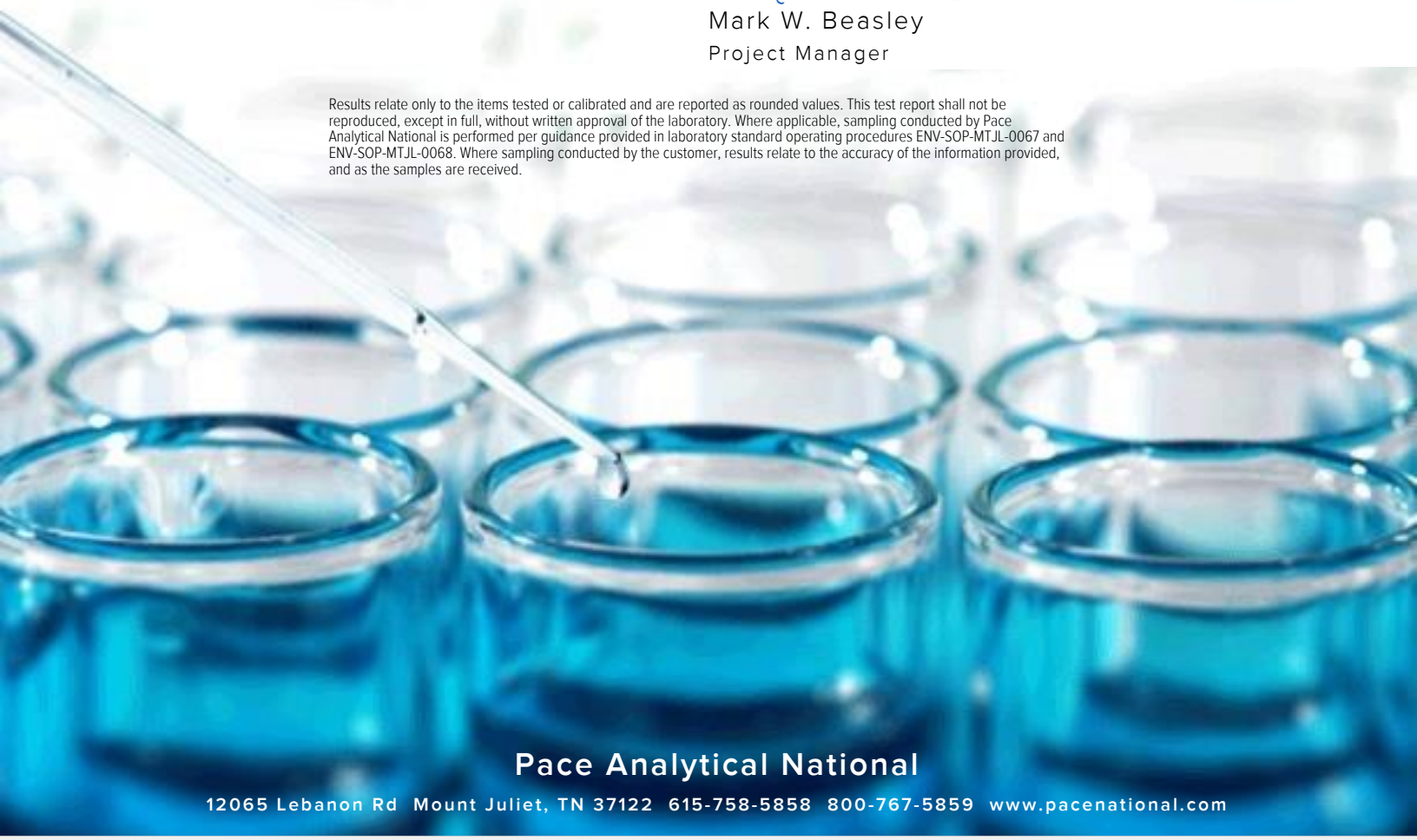
TEKLAB, Inc.

Sample Delivery Group:	L1557781
Samples Received:	11/14/2022
Project Number:	22110359
Description:	
Site:	006
Report To:	Elizabeth Hurley 5445 Horseshoe Lake Road Collinsville, IL 62234

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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22110359-006 L1557781-01 Non-Potable Water

Collected by | Collected date/time 11/08/22 12:20 | Received date/time 11/14/22 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1960584	1	11/18/22 11:52	11/25/22 15:42	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1966869	1	12/02/22 10:53	12/06/22 08:37	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1966869	1	12/02/22 10:53	12/06/22 08:37	RGT	Mt. Juliet, TN

22110359-007 L1557781-02 Non-Potable Water

Collected by | Collected date/time 11/08/22 11:47 | Received date/time 11/14/22 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1960584	1	11/18/22 11:52	11/25/22 15:42	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1966869	1	12/02/22 10:53	12/06/22 08:37	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1966869	1	12/02/22 10:53	12/06/22 08:37	RGT	Mt. Juliet, TN

22110359-008 L1557781-03 Non-Potable Water

Collected by | Collected date/time 11/08/22 09:04 | Received date/time 11/14/22 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1960584	1	11/18/22 11:52	11/25/22 15:42	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1966869	1	12/02/22 10:53	12/06/22 08:37	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1966869	1	12/02/22 10:53	12/06/22 08:37	RGT	Mt. Juliet, TN

22110359-009 L1557781-04 Non-Potable Water

Collected by | Collected date/time 11/08/22 11:30 | Received date/time 11/14/22 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1960584	1	11/18/22 11:52	11/25/22 15:42	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1966869	1	12/02/22 10:53	12/06/22 08:37	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1966869	1	12/02/22 10:53	12/06/22 08:37	RGT	Mt. Juliet, TN

22110359-010 L1557781-05 Non-Potable Water

Collected by | Collected date/time 11/08/22 09:26 | Received date/time 11/14/22 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1960584	1	11/18/22 11:52	11/25/22 15:42	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1966869	1	12/02/22 10:53	12/06/22 08:37	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1966869	1	12/02/22 10:53	12/06/22 08:37	RGT	Mt. Juliet, TN

22110359-011 L1557781-06 Non-Potable Water

Collected by | Collected date/time 11/08/22 10:09 | Received date/time 11/14/22 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1960584	1	11/18/22 11:52	11/25/22 15:42	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1966869	1	12/02/22 10:53	12/06/22 08:37	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1966869	1	12/02/22 10:53	12/06/22 08:37	RGT	Mt. Juliet, TN

22110359-012 L1557781-07 Non-Potable Water

Collected by	Collected date/time	Received date/time
	11/09/22 10:12	11/14/22 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1960584	1	11/18/22 11:52	11/25/22 15:42	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1966869	1	12/02/22 10:53	12/06/22 08:37	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1966869	1	12/02/22 10:53	12/06/22 08:37	RGT	Mt. Juliet, TN

22110359-013 L1557781-08 Non-Potable Water

Collected by	Collected date/time	Received date/time
	11/09/22 10:29	11/14/22 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1960584	1	11/18/22 11:52	11/25/22 15:42	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1966869	1	12/02/22 10:53	12/06/22 08:37	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1966869	1	12/02/22 10:53	12/06/22 08:37	RGT	Mt. Juliet, TN

22110359-014 L1557781-09 Non-Potable Water

Collected by	Collected date/time	Received date/time
	11/09/22 10:43	11/14/22 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1960584	1	11/18/22 11:52	11/25/22 15:42	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1966869	1	12/02/22 10:53	12/06/22 10:12	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1966869	1	12/02/22 10:53	12/06/22 10:12	RGT	Mt. Juliet, TN

22110359-015 L1557781-10 Non-Potable Water

Collected by	Collected date/time	Received date/time
	11/08/22 13:16	11/14/22 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1960584	1	11/18/22 11:52	11/25/22 15:42	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1966869	1	12/02/22 10:53	12/06/22 10:12	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1966869	1	12/02/22 10:53	12/06/22 10:12	RGT	Mt. Juliet, TN

22110359-001 L1557781-11 Non-Potable Water

Collected by	Collected date/time	Received date/time
	11/08/22 13:33	11/16/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1961949	1	11/22/22 10:36	12/08/22 10:43	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1966869	1	12/02/22 10:53	12/08/22 10:43	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1966869	1	12/02/22 10:53	12/06/22 10:12	RGT	Mt. Juliet, TN

22110359-002 L1557781-12 Non-Potable Water

Collected by	Collected date/time	Received date/time
	11/08/22 11:11	11/16/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1961949	1	11/22/22 10:36	12/08/22 10:43	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1966869	1	12/02/22 10:53	12/08/22 10:43	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1966869	1	12/02/22 10:53	12/06/22 10:12	RGT	Mt. Juliet, TN

22110359-003 L1557781-13 Non-Potable Water

Collected by	Collected date/time	Received date/time
	11/08/22 10:56	11/16/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1961949	1	11/22/22 10:36	12/08/22 10:43	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1966869	1	12/02/22 10:53	12/08/22 10:43	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1966869	1	12/02/22 10:53	12/06/22 10:12	RGT	Mt. Juliet, TN

22110359-004 L1557781-14 Non-Potable Water

Collected by	Collected date/time	Received date/time
	11/08/22 10:40	11/16/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1961949	1	11/22/22 10:36	12/08/22 10:43	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1966869	1	12/02/22 10:53	12/08/22 10:43	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1966869	1	12/02/22 10:53	12/06/22 10:12	RGT	Mt. Juliet, TN

22110359-005 L1557781-15 Non-Potable Water

Collected by	Collected date/time	Received date/time
	11/08/22 12:51	11/16/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1961949	1	11/22/22 10:36	12/08/22 10:43	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1966869	1	12/02/22 10:53	12/08/22 10:43	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1966869	1	12/02/22 10:53	12/06/22 10:12	RGT	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.132	U	0.436	0.791	11/25/2022 15:42	WG1960584
(T) Barium	*86.2*			*30.0-143*	*11/25/2022 15:42*	WG1960584
(T) Yttrium	*62.9*			*30.0-136*	*11/25/2022 15:42*	WG1960584

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.166	U	0.476	0.868	12/06/2022 08:37	WG1966869

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.0344	U	0.192	0.358	12/06/2022 08:37	WG1966869
(T) Barium-133	*87.6*			*30.0-143*	*12/06/2022 08:37*	WG1966869

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.43		0.386	0.653	11/25/2022 15:42	WG1960584
(T) Barium	*93.9*			*30.0-143*	*11/25/2022 15:42*	WG1960584
(T) Yttrium	*57.7*			*30.0-136*	*11/25/2022 15:42*	WG1960584

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.14		0.533	0.733	12/06/2022 08:37	WG1966869

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.708		0.367	0.332	12/06/2022 08:37	WG1966869
(T) Barium-133	*91.4*			*30.0-143*	*12/06/2022 08:37*	WG1966869

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.199	U	0.419	0.768	11/25/2022 15:42	WG1960584
(T) Barium	*89.1*			*30.0-143*	*11/25/2022 15:42*	WG1960584
(T) Yttrium	*65.6*			*30.0-136*	*11/25/2022 15:42*	WG1960584

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.382	J	0.513	0.840	12/06/2022 08:37	WG1966869

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.382		0.296	0.341	12/06/2022 08:37	WG1966869
(T) Barium-133	*93.2*			*30.0-143*	*12/06/2022 08:37*	WG1966869

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.385	J	0.483	0.865	11/25/2022 15:42	WG1960584
(T) Barium	*96.1*			*30.0-143*	*11/25/2022 15:42*	WG1960584
(T) Yttrium	*54.3*			*30.0-136*	*11/25/2022 15:42*	WG1960584

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.95		0.693	0.895	12/06/2022 08:37	WG1966869

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.57		0.497	0.230	12/06/2022 08:37	WG1966869
(T) Barium-133	*92.0*			*30.0-143*	*12/06/2022 08:37*	WG1966869

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.42		0.482	0.830	11/25/2022 15:42	WG1960584
(T) Barium	*92.5*			*30.0-143*	*11/25/2022 15:42*	WG1960584
(T) Yttrium	*66.7*			*30.0-136*	*11/25/2022 15:42*	WG1960584

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.95		0.600	0.927	12/06/2022 08:37	WG1966869

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.522		0.358	0.412	12/06/2022 08:37	WG1966869
(T) Barium-133	*100*			*30.0-143*	*12/06/2022 08:37*	WG1966869

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.000	U	0.398	0.726	11/25/2022 15:42	WG1960584
(T) Barium	*101*			*30.0-143*	*11/25/2022 15:42*	WG1960584
(T) Yttrium	*83.0*			*30.0-136*	*11/25/2022 15:42*	WG1960584

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.264	U	0.443	0.756	12/06/2022 10:12	WG1966869

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.264		0.195	0.212	12/06/2022 10:12	WG1966869
(T) Barium-133	*98.1*			*30.0-143*	*12/06/2022 10:12*	WG1966869

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.161	U	0.300	0.550	12/08/2022 10:43	WG1961949
(T) Barium	*98.8*			*30.0-143*	*12/08/2022 10:43*	WG1961949
(T) Yttrium	*114*			*30.0-136*	*12/08/2022 10:43*	WG1961949

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.432	J	0.351	0.568	12/08/2022 10:43	WG1966869

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.271		0.183	0.142	12/06/2022 10:12	WG1966869
(T) Barium-133	*96.6*			*30.0-143*	*12/06/2022 10:12*	WG1966869

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.516		0.243	0.434	12/08/2022 10:43	WG1961949
(T) Barium	*99.8*			*30.0-143*	*12/08/2022 10:43*	WG1961949
(T) Yttrium	*110*			*30.0-136*	*12/08/2022 10:43*	WG1961949

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.714		0.321	0.515	12/08/2022 10:43	WG1966869

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.198	J	0.210	0.277	12/06/2022 10:12	WG1966869
(T) Barium-133	*90.5*			*30.0-143*	*12/06/2022 10:12*	WG1966869

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.332	J	0.223	0.403	12/08/2022 10:43	WG1961949
(T) Barium	*93.6*			*30.0-143*	*12/08/2022 10:43*	WG1961949
(T) Yttrium	*112*			*30.0-136*	*12/08/2022 10:43*	WG1961949

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.431	J	0.261	0.450	12/08/2022 10:43	WG1966869

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.0990	J	0.136	0.200	12/06/2022 10:12	WG1966869
(T) Barium-133	*101*			*30.0-143*	*12/06/2022 10:12*	WG1966869

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.460		0.233	0.417	12/08/2022 10:43	WG1961949
(T) Barium	*92.0*			*30.0-143*	*12/08/2022 10:43*	WG1961949
(T) Yttrium	*132*			*30.0-136*	*12/08/2022 10:43*	WG1961949

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.505		0.269	0.482	12/08/2022 10:43	WG1966869

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.0446	U	0.134	0.241	12/06/2022 10:12	WG1966869
(T) Barium-133	*96.1*			*30.0-143*	*12/06/2022 10:12*	WG1966869

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.406	J	0.247	0.446	12/08/2022 10:43	WG1961949
(T) Barium	*92.1*			*30.0-143*	*12/08/2022 10:43*	WG1961949
(T) Yttrium	*115*			*30.0-136*	*12/08/2022 10:43*	WG1961949

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.901		0.364	0.502	12/08/2022 10:43	WG1966869

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.495		0.267	0.231	12/06/2022 10:12	WG1966869
(T) Barium-133	*101*			*30.0-143*	*12/06/2022 10:12*	WG1966869

QUALITY CONTROL SUMMARY

L1557781-01,02,03,04,05,06,07,08,09,10

Method Blank (MB)

(MB) R3867956-1 11/25/22 15:42

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-228	-0.345	U	0.257	0.480
(T) Barium	*94.5*		*94.5*	
(T) Yttrium	*60.6*		*60.6*	

L1552433-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1552433-10 11/30/22 15:39 • (DUP) R3867956-5 11/30/22 15:39

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.519	0.414	0.751	-0.850	0.640	0.751	1	200	1.80	U	20	3
(T) Barium	*96.0*			*89.4*	*89.4*							
(T) Yttrium	*64.2*			*57.2*	*57.2*							

Laboratory Control Sample (LCS)

(LCS) R3867956-2 11/25/22 15:42

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.48	110	80.0-120	
(T) Barium			*97.2*		
(T) Yttrium			*70.2*		

L1552433-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1552433-01 11/25/22 15:42 • (MS) R3867956-3 11/25/22 15:42 • (MSD) R3867956-4 11/25/22 15:42

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	1.58	13.2	12.3	117	107	1	70.0-130			7.20		20
(T) Barium		*85.3*			*92.5*	*100*							
(T) Yttrium		*57.3*			*60.5*	*64.7*							

Method Blank (MB)

(MB) R3870220-1 12/08/22 10:43

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-228	-0.105	U	0.152	0.290
(T) Barium	*98.1*		*98.1*	
(T) Yttrium	*105*		*105*	

L1552442-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1552442-01 12/08/22 10:43 • (DUP) R3870220-5 12/08/22 10:43

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.845	0.219	0.385	0.551	0.285	0.385	1	42.1	0.818		20	3
(T) Barium	*98.7*			*107*	*107*							
(T) Yttrium	*111*			*107*	*107*							

Laboratory Control Sample (LCS)

(LCS) R3870220-2 12/08/22 10:43

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.49	89.8	80.0-120	
(T) Barium			*99.9*		
(T) Yttrium			*103*		

L1552437-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1552437-16 12/08/22 10:43 • (MS) R3870220-3 12/08/22 10:43 • (MSD) R3870220-4 12/08/22 10:43

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	-0.124	9.64	9.63	96.4	96.3	1	70.0-130			0.0415		20
(T) Barium		*95.0*			*92.4*	*105*							
(T) Yttrium		*106*			*112*	*104*							

Method Blank (MB)

(MB) R3871343-1 12/05/22 21:01

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	-0.0469	U	0.0294	0.0704
(T) Barium-133	*91.4*		*91.4*	

L1557781-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1557781-15 12/06/22 10:12 • (DUP) R3871343-5 12/06/22 08:37

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-226	0.495	0.267	0.231	0.387	0.288	0.231	1	24.6	0.277		20	3
(T) Barium-133	*101*			*98.8*	*98.8*							

Laboratory Control Sample (LCS)

(LCS) R3871343-2 12/06/22 08:37

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.02	5.39	107	80.0-120	
(T) Barium-133			*96.5*		

L1557781-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1557781-01 12/06/22 08:37 • (MS) R3871343-3 12/06/22 08:37 • (MSD) R3871343-4 12/06/22 08:37

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	0.0344	20.6	20.3	103	101	1	75.0-125			1.42		20
(T) Barium-133		*87.6*			*92.2*	*95.8*							

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

A010

Pg ___ of ___

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO O With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: Client | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 22/228.
ICollected at an IL site.
Batch QC is required for all analyses requested. EDD requested.

Project# 22110359

Contact: Shelly Hennessey | Email: shennessy@teklabinc.com
Requested Due Date: 10-15 day TAT | Billing/PO: 3365 | Phone: 618-344-1004

L1557781

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Any changes to analysis/methods must be approved by Teklab, Inc.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	RAD 226/228											
-01	22110359-001	11/8/22 1333	HN03	Groundwater	✔											
-02	22110359-002	11/8/22 1111	HN03	Groundwater	✔											
	22110359-003	11/8/22 1056	HN03	Groundwater	✔											
	22110359-004	11/8/22 1040	HN03	Groundwater	✔											
	22110359-005	11/8/22 1251	HN03	Groundwater	✔											
-01	22110359-006	11/8/22 1220	HN03	Groundwater	✔											
-02	22110359-007	11/8/22 1147	HN03	Groundwater	✔											
-03	22110359-008	11/8/22 0904	HN03	Groundwater	✔											
-04	22110359-009	11/8/22 1130	HN03	Groundwater	✔											
-05	22110359-010	11/8/22 0926	HN03	Groundwater	✔											
-06	22110359-011	11/8/22 1009	HN03	Groundwater	✔											

*Relinquished By	Date/Time	Received By	Date/Time
	11/11/22 1100		11/11/22 1030

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

Pg ___ of ___

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO O With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: Client | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 22/228.
ICollected at an IL site.
Batch QC is required for all analyses requested. EDD requested.

Project# 22110359

Contact: Shelly Hennessey | Email: shennessy@teklabinc.com
Requested Due Date: 10-15 day TAT | Billing/PO: 33615 | Phone: 618-344-1004

U557781

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Any changes to analysis/methods must be approved by Teklab, Inc.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	RAD 226/228
-07	22110359-012	11/9/22 1012	HN03	Groundwater	✔
-08	22110359-013	11/9/22 1029	HN03	Groundwater	✔
-09	22110359-014	11/9/22 1043	HN03	Groundwater	✔
-10	22110359-015	11/8/22 1316	HN03	Groundwater	✔
			HN03	Groundwater	✔
			HN03	Groundwater	✔
			03	Groundwater	✔
			03	Groundwater	✔
			03	Groundwater	✔
			03	Groundwater	✔
			03	Groundwater	✔

Sample Receipt Checklist

COC Seal Present/Intact:	Y N	If Applicable	
COC Signed/Accurate:	Y N	VOA Zero Headspace:	Y N
Bottles arrive intact:	Y N	Pres.Correct/Check:	Y N
Correct bottles used:	Y N		
Sufficient volume sent:	Y N		
RAD Screen <0.5 mR/hr:	Y N		

Amb

*Relinquished By	Date/Time	Received By	Date/Time
	11/11/22 1700		11/14/22 1030

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA
3/2/2016

LR557761

Tracking Numbers	Temperature
FEDEx GROUND	Amb
↓	Amb

11/15-NCF-L1557781 TEKLABIL

R5

Time estimate: oh **Time spent:** oh

Members

HM Hailey Melson (responsible) MB Mark Beasley

Due on *18 November 2022 8:00 AM* for target *Done*

- [x] Login Clarification needed
- [ ] Chain of custody is incomplete
- [ ] Please specify Metals requested
- [ ] Please specify TCLP requested
- [ ] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [ ] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

Comments

Hailey Melson *15 November 2022 12:50 PM*

Missing IDs: 22110359-001, -002, -003, -004, -005

Hailey Melson *16 November 2022 1:34 PM*

Samples received today 11/16 and added.

January 2023 Laboratory Analytical Report

March 13, 2023

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 23020985

Dear Eric Staley:

TEKLAB, INC received 7 samples on 2/17/2023 8:50:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 23020985
Report Date: 13-Mar-23

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	14
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 23020985

Client Project: Ash Pond Monitoring Wells **Report Date:** 13-Mar-23

Abbr Definition

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power
Work Order: 23020985

Client Project: Ash Pond Monitoring Wells
Report Date: 13-Mar-23

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 23020985
Report Date: 13-Mar-23

Cooler Receipt Temp: 1.2 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 and Radium-228 analysis was performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power
Work Order: 23020985
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Mar-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2023	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2023	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2023	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2023	Collinsville
Arkansas	ADEQ	88-0966		3/14/2023	Collinsville
Illinois	IDPH	17584		5/31/2023	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: City Water, Light & Power
Work Order: 23020985
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Mar-23
Lab ID: 23020985-001
Client Sample ID: AP-7
Matrix: GROUNDWATER
Collection Date: 02/16/2023 14:54

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**496.50**	ft	1	02/16/2023 14:54	R325158
Depth to water	*	-5.00		**10.82**	ft	1	02/16/2023 14:54	R325158
Depth to water from measuring point	*	0		**13.48**	ft	1	02/16/2023 14:54	R325158
Elevation of groundwater surface	*	0		**525.54**	ft	1	02/16/2023 14:54	R325158
Measuring Point Elevation	*	0		**539.02**	ft	1	02/16/2023 14:54	R325158
Measuring Point Height Above Land Surface	*	0		**2.66**	ft	1	02/16/2023 14:54	R325158
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**22**	NTU	1	02/16/2023 14:54	R325158
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**51.4**	°F	1	02/16/2023 14:54	R325158
SW-846 9040B								
pH, Field	*	1.00		**7.20**		1	02/16/2023 14:54	R325158
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**626**	µmhos/cm @25C	1	02/16/2023 14:54	R325158
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**328**	mg/L	1	02/20/2023 9:58	R325069
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**16**	mg/L	1	02/27/2023 16:13	R325321
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.36**	mg/L	1	02/24/2023 9:35	R325243
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**45**	mg/L	2	02/27/2023 16:40	R325333
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	02/21/2023 23:57	203052
Barium	NELAP	0.0025		**0.111**	mg/L	1	02/21/2023 23:57	203052
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/21/2023 23:57	203052
Boron	NELAP	0.0200		**0.180**	mg/L	1	02/22/2023 17:56	203052
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/21/2023 23:57	203052
Calcium	NELAP	0.100		**49.3**	mg/L	1	02/21/2023 23:57	203052
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/21/2023 23:57	203052
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/21/2023 23:57	203052
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/21/2023 23:57	203052
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/21/2023 23:57	203052
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/21/2023 23:57	203052
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/20/2023 20:58	203052
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/20/2023 20:58	203052
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/20/2023 20:58	203052
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/18/2023 9:22	203036
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	03/08/2023 0:00	R325892
Radium-228	*	0		**See attached**	pci/L	1	03/08/2023 0:00	R325892

Client: City Water, Light & Power
Work Order: 23020985
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Mar-23
Lab ID: 23020985-003
Client Sample ID: AP-10
Matrix: GROUNDWATER
Collection Date: 02/16/2023 11:34

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**499.43**	ft	1	02/16/2023 11:34	R325158
Depth to water	*	-5.00		**-0.42**	ft	1	02/16/2023 11:34	R325158
Depth to water from measuring point	*	0		**2.68**	ft	1	02/16/2023 11:34	R325158
Elevation of groundwater surface	*	0		**534.82**	ft	1	02/16/2023 11:34	R325158
Measuring Point Elevation	*	0		**537.50**	ft	1	02/16/2023 11:34	R325158
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	02/16/2023 11:34	R325158
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**42**	NTU	1	02/16/2023 11:34	R325158
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**49.5**	°F	1	02/16/2023 11:34	R325158
SW-846 9040B								
pH, Field	*	1.00		**6.58**		1	02/16/2023 11:34	R325158
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1330**	µmhos/cm @25C	1	02/16/2023 11:34	R325158
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**778**	mg/L	1	02/20/2023 9:58	R325069
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**96**	mg/L	5	02/27/2023 17:04	R325321
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.30**	mg/L	1	02/24/2023 9:39	R325243
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**27**	mg/L	1	02/27/2023 16:59	R325333
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	02/22/2023 0:19	203052
Barium	NELAP	0.0025		**0.509**	mg/L	1	02/22/2023 0:19	203052
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/22/2023 0:19	203052
Boron	NELAP	0.0200		**3.32**	mg/L	1	02/22/2023 18:03	203052
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/22/2023 0:19	203052
Calcium	NELAP	0.100		**139**	mg/L	1	02/22/2023 0:19	203052
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/22/2023 0:19	203052
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/22/2023 0:19	203052
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/22/2023 0:19	203052
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/22/2023 0:19	203052
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/22/2023 0:19	203052
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/20/2023 21:11	203052
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/20/2023 21:11	203052
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/20/2023 21:11	203052
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/18/2023 9:27	203036
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	03/08/2023 0:00	R325892
Radium-228	*	0		**See attached**	pci/L	1	03/08/2023 0:00	R325892

Client: City Water, Light & Power
Work Order: 23020985
Client Project: Ash Pond Monitoring Wells
Report Date: 13-Mar-23
Lab ID: 23020985-007
Client Sample ID: AP-14
Matrix: GROUNDWATER
Collection Date: 02/16/2023 12:13

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**508.40**	ft	1	02/16/2023 12:13	R325158
Depth to water	*	-5.00		**-1.78**	ft	1	02/16/2023 12:13	R325158
Depth to water from measuring point	*	0		**1.02**	ft	1	02/16/2023 12:13	R325158
Elevation of groundwater surface	*	0		**538.58**	ft	1	02/16/2023 12:13	R325158
Measuring Point Elevation	*	0		**539.60**	ft	1	02/16/2023 12:13	R325158
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	02/16/2023 12:13	R325158
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**31**	NTU	1	02/16/2023 12:13	R325158
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**45.9**	°F	1	02/16/2023 12:13	R325158
SW-846 9040B								
pH, Field	*	1.00		**6.69**		1	02/16/2023 12:13	R325158
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1680**	µmhos/cm @25C	1	02/16/2023 12:13	R325158
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1280**	mg/L	1	02/20/2023 9:59	R325069
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**699**	mg/L	20	02/27/2023 17:49	R325321
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.25**	mg/L	1	02/24/2023 9:56	R325243
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**59**	mg/L	5	02/27/2023 17:44	R325333
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	02/20/2023 17:39	203063
Barium	NELAP	0.0025		**0.0413**	mg/L	1	02/20/2023 17:39	203063
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/21/2023 12:30	203063
Boron	NELAP	0.200		**21.3**	mg/L	10	02/21/2023 12:28	203063
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/20/2023 17:39	203063
Calcium	NELAP	0.100		**209**	mg/L	1	02/20/2023 17:39	203063
Chromium	NELAP	0.0050		**0.0058**	mg/L	1	02/20/2023 17:39	203063
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/20/2023 17:39	203063
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/20/2023 17:39	203063
Lithium	NELAP	0.0050		**0.0716**	mg/L	1	02/20/2023 17:39	203063
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/20/2023 17:39	203063
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/20/2023 20:08	203063
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/20/2023 20:08	203063
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/21/2023 11:15	203063
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/18/2023 9:41	203036
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	03/08/2023 0:00	R325892
Radium-228	*	0		**See attached**	pci/L	1	03/08/2023 0:00	R325892

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 23020985
Report Date: 13-Mar-23

Carrier: Joe Riley

Completed by: Timothy W. Mathis
On: 17-Feb-23

Received By: ANC

Reviewed by: Elizabeth A. Hurley
On: 17-Feb-23

Pages to follow: Chain of custody 2 Extra pages included 19

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 1.2
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

pH strip #87147. - CET/ehurley - 2/17/2023 11:18:53 AM

CHAIN OF CUSTODY

Pg 1 of 2 Workorder # ~~23021159~~ 23020985

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power

Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building

City/State/Zip: Springfield IL 62712

Contact: Eric Staley Phone: (217) 757-8610

Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 1.2 °C CT

Preserved in: [ ] LAB [X] FIELD FOR LAB USE ONLY

LAB NOTES: PWS 1147. Cert 2-17-23.

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No

Are these samples known to be hazardous? [ ] Yes [✓] No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [✓] No Permit on file

Client Comments:

*elevations, pH, conductivity, temperature
**Sb Se Tl (ICPMS) As Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER

Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME

J. RILEY

RESULTS REQUESTED

[✓] Standard [ ] 1-2 Day (100% Surcharge)

[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	CI F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
	~~BW-3~~		Groundwater	1	3								✓	✓	✓	✓	✓	✓
	~~AP-1~~		Groundwater	1	3								✓	✓	✓	✓	✓	✓
	~~AP-2~~		Groundwater	1	3								✓	✓	✓	✓	✓	✓
	~~AP-3~~		Groundwater	1	3								✓	✓	✓	✓	✓	✓
	~~AP-4~~		Groundwater	1	3								✓	✓	✓	✓	✓	✓
	~~AP-5~~		Groundwater	1	3								✓	✓	✓	✓	✓	✓
	~~AP-6~~		Groundwater	1	3								✓	✓	✓	✓	✓	✓
23020985 01	AP-7	02/16/23 1454	Groundwater	1	3								✓	✓	✓	✓	✓	✓
	~~AP-8~~		Groundwater	1	3								✓	✓	✓	✓	✓	✓
002	AP-9	02/16/23 1517	Groundwater	1	3								✓	✓	✓	✓	✓	✓
003	AP-10	02/16/23 1134	Groundwater	1	3								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
	02/17/23 0850	Allison Colin	2/17/23 850

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

Cert 2-17-23

CHAIN OF CUSTODY

Pg 2 of 2 Workorder # _____

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb Se Tl (ICPMS) As Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
J. KELLEY

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
23020885 004	AP-11	02/16/23 1254	Groundwater	1	3								✔	✔	✔	✔	✔	✔
005	AP-12	02/16/23 1310	Groundwater	1	3								✔	✔	✔	✔	✔	✔
006	AP-13	02/16/23 1328	Groundwater	1	3								✔	✔	✔	✔	✔	✔
007	AP-14	02/16/23 1213	Groundwater	1	3								✔	✔	✔	✔	✔	✔
			Groundwater										✔	✔	✔	✔	✔	✔
			Groundwater										✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
	02/17/23 0850	Allison Colin	2/17/23 850

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

March 10, 2023

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 23020985

Order No.: 23021632

Dear Shelly Hennessy:

Summit Environmental Technologies, Inc. received 7 sample(s) on 2/22/2023 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Case Narrative

WO#: **23021632**
Date: **3/10/2023**

CLIENT: TEKLAB Inc,
Project: 23020985

WorkOrder Narrative:
23021632: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Sequence Sample Notes:
23021632-001A thru -007A Radium-228_NPW(904.0): Samples contained sediment

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, In
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-44
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **23021632**
Date: **3/10/2023**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

Summit Environmental Technologies, Inc.
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Website: http://www.settek.com

Workorder Sample Summary

WO#: **23021632**
10-Mar-23

CLIENT: TEKLAB Inc,
Project: 23020985

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23021632-001	23020985-001		2/16/2023 2:54:00 PM	2/22/2023 11:10:00 AM	Non-Potable Water
23021632-002	23020985-002		2/16/2023 3:11:00 PM	2/22/2023 11:10:00 AM	Non-Potable Water
23021632-003	23020985-003		2/16/2023 11:34:00 AM	2/22/2023 11:10:00 AM	Non-Potable Water
23021632-004	23020985-004		2/16/2023 12:54:00 PM	2/22/2023 11:10:00 AM	Non-Potable Water
23021632-005	23020985-005		2/16/2023 1:10:00 PM	2/22/2023 11:10:00 AM	Non-Potable Water
23021632-006	23020985-006		2/16/2023 1:25:00 PM	2/22/2023 11:10:00 AM	Non-Potable Water
23021632-007	23020985-007		2/16/2023 12:13:00 PM	2/22/2023 11:10:00 AM	Non-Potable Water

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DATES REPORT

WO#: **23021632**

10-Mar-23

Client: TEKLAB Inc,

Project: 23020985

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23021632-001A	23020985-001	2/16/2023 2:54:00 PM	Non-Potable Water	Radium-226 (EPA 903.0)		2/27/2023 11:11:00 AM	3/9/2023 2:05:00 PM
				Radium-228 (EPA 904.0)		2/27/2023 11:11:00 AM	3/8/2023 2:24:00 PM
23021632-002A	23020985-002	2/16/2023 3:11:00 PM		Radium-226 (EPA 903.0)		2/27/2023 11:11:00 AM	3/9/2023 2:05:00 PM
				Radium-228 (EPA 904.0)		2/27/2023 11:11:00 AM	3/8/2023 2:24:00 PM
23021632-003A	23020985-003	2/16/2023 11:34:00 AM		Radium-226 (EPA 903.0)		2/27/2023 11:11:00 AM	3/9/2023 2:05:00 PM
				Radium-228 (EPA 904.0)		2/27/2023 11:11:00 AM	3/8/2023 2:24:00 PM
23021632-004A	23020985-004	2/16/2023 12:54:00 PM		Radium-226 (EPA 903.0)		2/27/2023 11:11:00 AM	3/9/2023 2:05:00 PM
				Radium-228 (EPA 904.0)		2/27/2023 11:11:00 AM	3/8/2023 2:24:00 PM
23021632-005A	23020985-005	2/16/2023 1:10:00 PM		Radium-226 (EPA 903.0)		2/27/2023 11:11:00 AM	3/9/2023 2:05:00 PM
				Radium-228 (EPA 904.0)		2/27/2023 11:11:00 AM	3/8/2023 2:24:00 PM
23021632-006A	23020985-006	2/16/2023 1:25:00 PM		Radium-226 (EPA 903.0)		2/27/2023 11:11:00 AM	3/9/2023 2:05:00 PM
				Radium-228 (EPA 904.0)		2/27/2023 11:11:00 AM	3/8/2023 2:24:00 PM
23021632-007A	23020985-007	2/16/2023 12:13:00 PM		Radium-226 (EPA 903.0)		2/27/2023 11:11:00 AM	3/9/2023 2:05:00 PM
				Radium-228 (EPA 904.0)		2/27/2023 11:11:00 AM	3/8/2023 2:24:00 PM

Original

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Analytical Report

(consolidated)

WO#: **23021632**

Date Reported: **3/10/2023**

CLIENT: TEKLAB Inc,
Project: 23020985
Lab ID: 23021632-001
Client Sample ID: 23020985-001

Collection Date: 2/16/2023 2:54:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.12	1	3/9/2023 2:05:00 PM
Yield	1.00					1	3/9/2023 2:05:00 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.45	1	3/8/2023 2:24:00 PM
Yield	1.00					1	3/8/2023 2:24:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **23021632**

Date Reported: **3/10/2023**

CLIENT: TEKLAB Inc,
Project: 23020985
Lab ID: 23021632-003
Client Sample ID: 23020985-003

Collection Date: 2/16/2023 11:34:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.18	1	3/9/2023 2:05:00 PM
Yield	0.960					1	3/9/2023 2:05:00 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	2.04	1.00		pCi/L	± 0.58	1	3/8/2023 2:24:00 PM
Yield	0.980					1	3/8/2023 2:24:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **23021632**

Date Reported: **3/10/2023**

CLIENT: TEKLAB Inc,
Project: 23020985
Lab ID: 23021632-007
Client Sample ID: 23020985-007

Collection Date: 2/16/2023 12:13:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.08	1	3/9/2023 2:05:00 PM
Yield	0.960					1	3/9/2023 2:05:00 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.46	1	3/8/2023 2:24:00 PM
Yield	0.980					1	3/8/2023 2:24:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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QC SUMMARY REPORT

WO#: **23021632**

10-Mar-23

Client: TEKLAB Inc,
Project: 23020985 **BatchID:** **63147**

Sample ID: **MB-63147** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/27/2023** RunNo: **159591**
Client ID: **PBW** Batch ID: **63147** TestNo: **E904.0** **E903-904** Analysis Date: **3/8/2023** SeqNo: **4241639**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCSD-63147** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/27/2023** RunNo: **159591**
Client ID: **LCSS02** Batch ID: **63147** TestNo: **E904.0** **E903-904** Analysis Date: **3/8/2023** SeqNo: **4241641**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.62	1.00	5.000	0	72.4	70	130	2.390	40.9	20	R
Yield	0.950			0	0			0.9900	4.12		

Sample ID: **RLC-63147** SampType: **RLC** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/27/2023** RunNo: **159591**
Client ID: **BatchQC** Batch ID: **63147** TestNo: **E904.0** **E903-904** Analysis Date: **3/8/2023** SeqNo: **4241643**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00	1.000	0	81.0	50	150				
Yield	0.970			0	0						

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **23021632**
10-Mar-23

Client: TEKLAB Inc,
Project: 23020985 **BatchID:** **63147**

Sample ID: **RLCD-63147** SampType: **RLC** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/27/2023** RunNo: **159591**
Client ID: **BatchQC** Batch ID: **63147** TestNo: **E904.0** **E903-904** Analysis Date: **3/8/2023** SeqNo: **4241644**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.15	1.00	1.000	0	115	50	150				
Yield	1.00			0	0						

Sample ID: **23021630-001AMS** SampType: **MS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/27/2023** RunNo: **159591**
Client ID: **BatchQC** Batch ID: **63147** TestNo: **E904.0** **E903-904** Analysis Date: **3/8/2023** SeqNo: **4241645**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.99	1.00	5.000	0	79.8	70	130				
Yield	0.850			0.9400	0						

Sample ID: **23021631-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/27/2023** RunNo: **159591**
Client ID: **BatchQC** Batch ID: **63147** TestNo: **E904.0** **E903-904** Analysis Date: **3/8/2023** SeqNo: **4241650**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **23021632**
10-Mar-23

Client: TEKLAB Inc,
Project: 23020985 **BatchID:** **63147**

Sample ID: **23021637-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/27/2023** RunNo: **159591**
Client ID: **BatchQC** Batch ID: **63147** TestNo: **E904.0** **E903-904** Analysis Date: **3/8/2023** SeqNo: **4241652**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **23021632**

10-Mar-23

Client: TEKLAB Inc,
Project: 23020985 **BatchID:** **63147**

Sample ID: **MB-63147** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/27/2023** RunNo: **159596**
Client ID: **PBW** Batch ID: **63147** TestNo: **E903.0** **E903-904** Analysis Date: **3/9/2023** SeqNo: **4241980**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-63147** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/27/2023** RunNo: **159596**
Client ID: **LCSW** Batch ID: **63147** TestNo: **E903.0** **E903-904** Analysis Date: **3/9/2023** SeqNo: **4241981**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.76	1.00	5.000	0	115	70	130				

Sample ID: **LCSD-63147** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/27/2023** RunNo: **159596**
Client ID: **LCSS02** Batch ID: **63147** TestNo: **E903.0** **E903-904** Analysis Date: **3/9/2023** SeqNo: **4241982**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.46	1.00	5.000	0	109	70	130	5.760	5.35	20	

Sample ID: **RLC-63147** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/27/2023** RunNo: **159596**
Client ID: **BatchQC** Batch ID: **63147** TestNo: **E903.0** **E903-904** Analysis Date: **3/9/2023** SeqNo: **4241984**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **23021632**

10-Mar-23

Client: TEKLAB Inc,
Project: 23020985 **BatchID:** **63147**

Sample ID: **RLC-63147** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/27/2023** RunNo: **159596**
Client ID: **BatchQC** Batch ID: **63147** TestNo: **E903.0** **E903-904** Analysis Date: **3/9/2023** SeqNo: **4241984**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00	1.000	0	85.0	50	150				

Sample ID: **RLCD-63147** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/27/2023** RunNo: **159596**
Client ID: **BatchQC** Batch ID: **63147** TestNo: **E903.0** **E903-904** Analysis Date: **3/9/2023** SeqNo: **4241985**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.24	1.00	1.000	0	124	50	150				

Sample ID: **23021637-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/27/2023** RunNo: **159596**
Client ID: **BatchQC** Batch ID: **63147** TestNo: **E903.0** **E903-904** Analysis Date: **3/9/2023** SeqNo: **4241987**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							0.9600	4.08	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Pg ___ of ___

TEKLAB, INC. Chain of Custody

23021632

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Cooler Temp: ____ Sampler: CLIENT QC Level: 2

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium (226 and 228) by method EPA903.0/904.0
on your standard turnaround time.
Batch QC is required with the report. Receipt summary requested.

Project# 23020985

Contact: Shelly Hennessey Email: shennessey@teklabinc.com State of Origin: IL
Requested Due Date: 20 business days or less Billing/PO: 34003 Phone: (618) 344-1004 ext.

PLEASE NOTE:
NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Any changes to analysis/methods must be approved by Teklab, Inc.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226	Radium 228	cpm	
	23020985-001	2/16/23 1454	HNO3	Aqueous	✔	✔	10	1
	23020985-002	2/16/23 1511	HNO3	Aqueous	✔	✔	20	1
	23020985-003	2/16/23 1134	HNO3	Aqueous	✔	✔	23	1
	23020985-004	2/16/23 1254	HNO3	Aqueous	✔	✔	21	1
	23020985-005	2/16/23 1310	HNO3	Aqueous	✔	✔	11	1
	23020985-006	2/16/23 1325	HNO3	Aqueous	✔	✔	20	1
	23020985-007	2/16/23 1213	HNO3	Aqueous	✔	✔	30	1
			Unpres	Aqueous	☐	☐		
			Unpres	Aqueous	☐	☐		
			Unpres	Aqueous	☐	☐		
			Unpres	Aqueous	☐	☐		

*Relinquished By	Date/Time	Received By	Date/Time
	2-20-23		2/22/23 1110
			17.0+0.3=17.3

Fedex Cooler, no ice

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights,

SubCocRevA

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **23021632** RcptNo: **1**

Logged by:	**Anthony W. Britton**	**2/22/2023 11:10:00 AM**	Anthony Britton
Completed By:	**Anthony W. Britton**	**2/24/2023 9:19:09 AM**	Anthony Britton
Reviewed By:	**Jennifer Woolf**	**2/24/2023 10:27:12 AM**	Jennifer Woolf

Chain of Custody

1.	Were seals intact?	Yes ☑	No ☐	Not Present ☐
2.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3.	How was the sample delivered?	FedEx		

Log In

4.	Coolers are present?	Yes ☐	No ☑	NA ☐
5.	Was an attempt made to cool the samples?	Yes ☐	No ☑	NA ☐
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☑	NA ☐
		Not required		
7.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
8.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
9.	Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
10.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
11.	Is the headspace in the VOA vials less than 1/4 inch or 6 mm?	Yes ☐	No ☐	No VOA Vials ☑
12.	Were any sample containers received broken?	Yes ☐	No ☑	
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
14.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
15.	Is it clear what analyses were requested?	Yes ☑	No ☐	
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	17.3	Good	Not Present			

March 07, 2023

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 23010325

Dear Eric Staley:

TEKLAB, INC received 15 samples on 1/30/2023 9:20:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 23010325
Report Date: 07-Mar-23

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	16
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 23010325

Client Project: Ash Pond Monitoring Wells **Report Date:** 07-Mar-23

Abbr Definition

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Definitions

Client: City Water, Light & Power
Work Order: 23010325
Client Project: Ash Pond Monitoring Wells
Report Date: 07-Mar-23

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 23010325
Report Date: 07-Mar-23

Cooler Receipt Temp: 0.0 °C

An employee of Teklab, Inc. collected the sample(s).

Wells AP-7, AP-9, AP-10, AP-11, AP-12, AP-13 and AP-14 were frozen and could not be collected. JR/JC 1/30/23

Radium-226 and Radium-228 analysis was performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power
Work Order: 23010325
Client Project: Ash Pond Monitoring Wells
Report Date: 07-Mar-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2023	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2023	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2023	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2023	Collinsville
Arkansas	ADEQ	88-0966		3/14/2023	Collinsville
Illinois	IDPH	17584		5/31/2023	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: City Water, Light & Power
Work Order: 23010325
Client Project: Ash Pond Monitoring Wells
Report Date: 07-Mar-23
Lab ID: 23010325-001
Client Sample ID: RW-3
Matrix: GROUNDWATER
Collection Date: 01/26/2023 14:40

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	01/26/2023 14:40	R324367
Depth to water	*	-5.00		**6.60**	ft	1	01/26/2023 14:40	R324367
Depth to water from measuring point	*	0		**9.30**	ft	1	01/26/2023 14:40	R324367
Elevation of groundwater surface	*	0		**530.20**	ft	1	01/26/2023 14:40	R324367
Measuring Point Elevation	*	0		**539.50**	ft	1	01/26/2023 14:40	R324367
Measuring Point Height Above Land Surface	*	0		**2.70**	ft	1	01/26/2023 14:40	R324367
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**170**	NTU	1	01/26/2023 14:40	R324367
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**41.9**	°F	1	01/26/2023 14:40	R324367
SW-846 9040B								
pH, Field	*	1.00		**6.15**		1	01/26/2023 14:40	R324367
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1640**	µmhos/cm @25C	1	01/26/2023 14:40	R324367
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**435**	mg/L	2.5	01/31/2023 8:38	R324271
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	02/06/2023 13:57	R324440
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.46**	mg/L	1	02/07/2023 9:56	R324472
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**29**	mg/L	1	02/06/2023 13:57	R324453
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**0.169**	mg/L	1	02/02/2023 12:40	202449
Barium	NELAP	0.0025		**0.168**	mg/L	1	02/02/2023 12:40	202449
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/02/2023 12:40	202449
Boron	NELAP	0.0200		**0.175**	mg/L	1	02/02/2023 12:40	202449
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/02/2023 12:40	202449
Calcium	NELAP	0.100		**67.8**	mg/L	1	02/02/2023 12:40	202449
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/02/2023 12:40	202449
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/02/2023 12:40	202449
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/02/2023 12:40	202449
Lithium	NELAP	0.0050		**0.0179**	mg/L	1	02/06/2023 17:28	202449
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/02/2023 12:40	202449
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/07/2023 0:32	202449
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/03/2023 16:36	202449
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/03/2023 16:36	202449
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/01/2023 18:13	202480
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	02/14/2023 0:00	R325259
Radium-228	*	0		**See Attached**	pci/L	1	02/14/2023 0:00	R325259

Client: City Water, Light & Power **Work Order:** 23010325

Client Project: Ash Pond Monitoring Wells **Report Date:** 07-Mar-23

Lab ID: 23010325-002 **Client Sample ID:** AP-1

Matrix: GROUNDWATER **Collection Date:** 01/27/2023 11:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**504.29**	ft	1	01/27/2023 11:19	R324367
Depth to water	*	-5.00		**7.62**	ft	1	01/27/2023 11:19	R324367
Depth to water from measuring point	*	0		**9.89**	ft	1	01/27/2023 11:19	R324367
Elevation of groundwater surface	*	0		**525.48**	ft	1	01/27/2023 11:19	R324367
Measuring Point Elevation	*	0		**535.37**	ft	1	01/27/2023 11:19	R324367
Measuring Point Height Above Land Surface	*	0		**2.27**	ft	1	01/27/2023 11:19	R324367
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**7.4**	NTU	1	01/27/2023 11:19	R324367
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.8**	°F	1	01/27/2023 11:19	R324367
SW-846 9040B								
pH, Field	*	1.00		**6.60**		1	01/27/2023 11:19	R324367
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**3060**	µmhos/cm @25C	1	01/27/2023 11:19	R324367
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1520**	mg/L	2.5	01/31/2023 8:38	R324271
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**781**	mg/L	20	02/06/2023 14:25	R324440
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.20**	mg/L	1	02/07/2023 9:58	R324472
SW-846 9251 (TOTAL)								
Chloride	NELAP	5		**58**	mg/L	5	02/06/2023 14:19	R324453
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	02/02/2023 12:42	202449
Barium	NELAP	0.0025		**0.236**	mg/L	1	02/02/2023 12:42	202449
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/02/2023 12:42	202449
Boron	NELAP	0.200	S	**23.2**	mg/L	10	02/06/2023 17:24	202449
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/02/2023 12:42	202449
Calcium	NELAP	0.100	S	**230**	mg/L	1	02/02/2023 12:42	202449
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/02/2023 12:42	202449
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/02/2023 12:42	202449
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/02/2023 12:42	202449
Lithium	NELAP	0.0050		**0.0566**	mg/L	1	02/06/2023 17:39	202449
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/02/2023 12:42	202449
Matrix spike control limits for B are not applicable due to high sample/spike ratio.								
Matrix spike control limits for Ca are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/07/2023 1:32	202449
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/03/2023 16:41	202449
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/03/2023 16:41	202449
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/01/2023 18:15	202480
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	02/14/2023 0:00	R325259

Client: City Water, Light & Power
Work Order: 23010325
Client Project: Ash Pond Monitoring Wells
Report Date: 07-Mar-23
Lab ID: 23010325-002
Client Sample ID: AP-1
Matrix: GROUNDWATER
Collection Date: 01/27/2023 11:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	02/14/2023 0:00	R325259

Client: City Water, Light & Power
Work Order: 23010325
Client Project: Ash Pond Monitoring Wells
Report Date: 07-Mar-23
Lab ID: 23010325-003
Client Sample ID: AP-2
Matrix: GROUNDWATER
Collection Date: 01/27/2023 10:55

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.77**	ft	1	01/27/2023 10:55	R324367
Depth to water	*	-5.00		**4.40**	ft	1	01/27/2023 10:55	R324367
Depth to water from measuring point	*	0		**6.90**	ft	1	01/27/2023 10:55	R324367
Elevation of groundwater surface	*	0		**529.20**	ft	1	01/27/2023 10:55	R324367
Measuring Point Elevation	*	0		**536.10**	ft	1	01/27/2023 10:55	R324367
Measuring Point Height Above Land Surface	*	0		**2.50**	ft	1	01/27/2023 10:55	R324367
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.9**	NTU	1	01/27/2023 10:55	R324367
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.6**	°F	1	01/27/2023 10:55	R324367
SW-846 9040B								
pH, Field	*	1.00		**6.46**		1	01/27/2023 10:55	R324367
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**2440**	µmhos/cm @25C	1	01/27/2023 10:55	R324367
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1180**	mg/L	2.5	01/31/2023 8:39	R324271
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**485**	mg/L	20	02/06/2023 14:45	R324440
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.24**	mg/L	1	02/07/2023 10:00	R324472
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**36**	mg/L	1	02/06/2023 14:27	R324453
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	02/02/2023 13:13	202449
Barium	NELAP	0.0025		**0.0744**	mg/L	1	02/02/2023 13:13	202449
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/02/2023 13:13	202449
Boron	NELAP	0.0200		**3.94**	mg/L	1	02/02/2023 13:13	202449
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/02/2023 13:13	202449
Calcium	NELAP	0.100		**217**	mg/L	1	02/02/2023 13:13	202449
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/02/2023 13:13	202449
Cobalt	NELAP	0.0050		**0.0091**	mg/L	1	02/02/2023 13:13	202449
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/02/2023 13:13	202449
Lithium	NELAP	0.0050		**0.0476**	mg/L	1	02/06/2023 17:30	202449
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/02/2023 13:13	202449
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/07/2023 1:00	202449
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/03/2023 16:09	202449
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/03/2023 16:09	202449
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/01/2023 18:17	202480
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	02/14/2023 0:00	R325259
Radium-228	*	0		**See Attached**	pci/L	1	02/14/2023 0:00	R325259

Client: City Water, Light & Power
Work Order: 23010325
Client Project: Ash Pond Monitoring Wells
Report Date: 07-Mar-23
Lab ID: 23010325-004
Client Sample ID: AP-3
Matrix: GROUNDWATER
Collection Date: 01/27/2023 10:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.45**	ft	1	01/27/2023 10:35	R324367
Depth to water	*	-5.00		**7.77**	ft	1	01/27/2023 10:35	R324367
Depth to water from measuring point	*	0		**9.47**	ft	1	01/27/2023 10:35	R324367
Elevation of groundwater surface	*	0		**525.93**	ft	1	01/27/2023 10:35	R324367
Measuring Point Elevation	*	0		**535.40**	ft	1	01/27/2023 10:35	R324367
Measuring Point Height Above Land Surface	*	0		**1.70**	ft	1	01/27/2023 10:35	R324367
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**< 1.0**	NTU	1	01/27/2023 10:35	R324367
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.9**	°F	1	01/27/2023 10:35	R324367
SW-846 9040B								
pH, Field	*	1.00		**6.58**		1	01/27/2023 10:35	R324367
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**2090**	µmhos/cm @25C	1	01/27/2023 10:35	R324367
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1040**	mg/L	2.5	01/31/2023 8:39	R324271
SW-846 9036 (TOTAL)								
Sulfate	NELAP	100		**461**	mg/L	10	02/06/2023 14:53	R324440
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.22**	mg/L	1	02/07/2023 10:01	R324472
SW-846 9251 (TOTAL)								
Chloride	NELAP	5		**60**	mg/L	5	02/06/2023 14:48	R324453
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	02/02/2023 13:15	202449
Barium	NELAP	0.0025		**0.111**	mg/L	1	02/02/2023 13:15	202449
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/02/2023 13:15	202449
Boron	NELAP	0.0200		**14.5**	mg/L	1	02/02/2023 13:15	202449
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/02/2023 13:15	202449
Calcium	NELAP	0.100		**161**	mg/L	1	02/02/2023 13:15	202449
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/02/2023 13:15	202449
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/02/2023 13:15	202449
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/02/2023 13:15	202449
Lithium	NELAP	0.0050		**0.0501**	mg/L	1	02/06/2023 17:44	202449
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/02/2023 13:15	202449
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/07/2023 1:05	202449
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/03/2023 16:14	202449
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/03/2023 16:14	202449
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/01/2023 18:24	202480
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	02/14/2023 0:00	R325259
Radium-228	*	0		**See Attached**	pci/L	1	02/14/2023 0:00	R325259

Client: City Water, Light & Power
Work Order: 23010325
Client Project: Ash Pond Monitoring Wells
Report Date: 07-Mar-23
Lab ID: 23010325-005
Client Sample ID: AP-4
Matrix: GROUNDWATER
Collection Date: 01/26/2023 13:51

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.79**	ft	1	01/26/2023 13:51	R324367
Depth to water	*	-5.00		**4.67**	ft	1	01/26/2023 13:51	R324367
Depth to water from measuring point	*	0		**9.97**	ft	1	01/26/2023 13:51	R324367
Elevation of groundwater surface	*	0		**549.23**	ft	1	01/26/2023 13:51	R324367
Measuring Point Elevation	*	0		**559.20**	ft	1	01/26/2023 13:51	R324367
Measuring Point Height Above Land Surface	*	0		**5.30**	ft	1	01/26/2023 13:51	R324367
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**2.4**	NTU	1	01/26/2023 13:51	R324367
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.7**	°F	1	01/26/2023 13:51	R324367
SW-846 9040B								
pH, Field	*	1.00		**6.99**		1	01/26/2023 13:51	R324367
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1160**	µmhos/cm @25C	1	01/26/2023 13:51	R324367
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**515**	mg/L	2.5	01/31/2023 8:44	R324271
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	02/06/2023 14:56	R324440
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.14**	mg/L	1	02/07/2023 10:03	R324472
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**14**	mg/L	1	02/06/2023 14:56	R324453
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	02/02/2023 13:16	202449
Barium	NELAP	0.0025		**0.390**	mg/L	1	02/02/2023 13:16	202449
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/02/2023 13:16	202449
Boron	NELAP	0.0200		**0.0918**	mg/L	1	02/06/2023 17:22	202449
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/02/2023 13:16	202449
Calcium	NELAP	0.100		**115**	mg/L	1	02/02/2023 13:16	202449
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/02/2023 13:16	202449
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/02/2023 13:16	202449
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/02/2023 13:16	202449
Lithium	NELAP	0.0050		**0.0196**	mg/L	1	02/06/2023 17:22	202449
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/02/2023 13:16	202449
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/07/2023 1:11	202449
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/03/2023 16:19	202449
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/03/2023 16:19	202449
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/01/2023 18:26	202480
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	02/14/2023 0:00	R325259
Radium-228	*	0		**See Attached**	pci/L	1	02/14/2023 0:00	R325259

Client: City Water, Light & Power
Work Order: 23010325
Client Project: Ash Pond Monitoring Wells
Report Date: 07-Mar-23
Lab ID: 23010325-006
Client Sample ID: AP-5
Matrix: GROUNDWATER
Collection Date: 01/27/2023 12:40

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**552.63**	ft	1	01/27/2023 12:40	R324367
Depth to water	*	-5.00		**12.57**	ft	1	01/27/2023 12:40	R324367
Depth to water from measuring point	*	0		**14.87**	ft	1	01/27/2023 12:40	R324367
Elevation of groundwater surface	*	0		**569.03**	ft	1	01/27/2023 12:40	R324367
Measuring Point Elevation	*	0		**583.90**	ft	1	01/27/2023 12:40	R324367
Measuring Point Height Above Land Surface	*	0		**2.30**	ft	1	01/27/2023 12:40	R324367
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.7**	NTU	1	01/27/2023 12:40	R324367
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.4**	°F	1	01/27/2023 12:40	R324367
SW-846 9040B								
pH, Field	*	1.00		**7.06**		1	01/27/2023 12:40	R324367
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1000**	µmhos/cm @25C	1	01/27/2023 12:40	R324367
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**374**	mg/L	1	01/31/2023 8:44	R324271
SW-846 9036 (TOTAL)								
Sulfate	NELAP	20		**37**	mg/L	2	02/06/2023 15:17	R324440
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.34**	mg/L	1	02/07/2023 10:06	R324472
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**3**	mg/L	1	02/06/2023 15:06	R324453
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	02/02/2023 13:18	202449
Barium	NELAP	0.0025		**0.0408**	mg/L	1	02/02/2023 13:18	202449
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/02/2023 13:18	202449
Boron	NELAP	0.0200		**0.0353**	mg/L	1	02/02/2023 13:18	202449
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/02/2023 13:18	202449
Calcium	NELAP	0.100		**78.3**	mg/L	1	02/02/2023 13:18	202449
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/02/2023 13:18	202449
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/02/2023 13:18	202449
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/02/2023 13:18	202449
Lithium	NELAP	0.0050		**0.0142**	mg/L	1	02/06/2023 17:46	202449
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/02/2023 13:18	202449
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/07/2023 1:16	202449
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/03/2023 16:25	202449
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/03/2023 16:25	202449
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/01/2023 18:33	202480
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	02/14/2023 0:00	R325259
Radium-228	*	0		**See Attached**	pci/L	1	02/14/2023 0:00	R325259

Client: City Water, Light & Power
Work Order: 23010325
Client Project: Ash Pond Monitoring Wells
Report Date: 07-Mar-23
Lab ID: 23010325-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 01/27/2023 12:05

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.20**	ft	1	01/27/2023 12:05	R324367
Depth to water	*	-5.00		**5.53**	ft	1	01/27/2023 12:05	R324367
Depth to water from measuring point	*	0		**7.95**	ft	1	01/27/2023 12:05	R324367
Elevation of groundwater surface	*	0		**529.87**	ft	1	01/27/2023 12:05	R324367
Measuring Point Elevation	*	0		**537.82**	ft	1	01/27/2023 12:05	R324367
Measuring Point Height Above Land Surface	*	0		**2.42**	ft	1	01/27/2023 12:05	R324367
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**< 1.0**	NTU	1	01/27/2023 12:05	R324367
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**54.7**	°F	1	01/27/2023 12:05	R324367
SW-846 9040B								
pH, Field	*	1.00		**7.07**		1	01/27/2023 12:05	R324367
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**866**	µmhos/cm @25C	1	01/27/2023 12:05	R324367
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**322**	mg/L	1	01/31/2023 8:51	R324271
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**12**	mg/L	1	02/06/2023 15:44	R324440
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.38**	mg/L	1	02/07/2023 10:07	R324472
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**27**	mg/L	1	02/06/2023 15:44	R324453
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	02/02/2023 13:20	202449
Barium	NELAP	0.0025		**0.0938**	mg/L	1	02/02/2023 13:20	202449
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/02/2023 13:20	202449
Boron	NELAP	0.0200		**0.130**	mg/L	1	02/02/2023 13:20	202449
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/02/2023 13:20	202449
Calcium	NELAP	0.100		**52.4**	mg/L	1	02/02/2023 13:20	202449
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/02/2023 13:20	202449
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/02/2023 13:20	202449
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/02/2023 13:20	202449
Lithium	NELAP	0.0050		**0.0140**	mg/L	1	02/06/2023 17:47	202449
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/02/2023 13:20	202449
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/07/2023 1:21	202449
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/03/2023 16:30	202449
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/03/2023 16:30	202449
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/01/2023 18:35	202480
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	02/14/2023 0:00	R325259
Radium-228	*	0		**See Attached**	pci/L	1	02/14/2023 0:00	R325259

Client: City Water, Light & Power
Work Order: 23010325
Client Project: Ash Pond Monitoring Wells
Report Date: 07-Mar-23
Lab ID: 23010325-009
Client Sample ID: AP-8
Matrix: GROUNDWATER
Collection Date: 01/27/2023 11:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.60**	ft	1	01/27/2023 11:45	R324367
Depth to water	*	-5.00		**2.30**	ft	1	01/27/2023 11:45	R324367
Depth to water from measuring point	*	0		**5.20**	ft	1	01/27/2023 11:45	R324367
Elevation of groundwater surface	*	0		**532.00**	ft	1	01/27/2023 11:45	R324367
Measuring Point Elevation	*	0		**537.20**	ft	1	01/27/2023 11:45	R324367
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	01/27/2023 11:45	R324367
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**2.0**	NTU	1	01/27/2023 11:45	R324367
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.5**	°F	1	01/27/2023 11:45	R324367
SW-846 9040B								
pH, Field	*	1.00		**6.86**		1	01/27/2023 11:45	R324367
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1570**	µmhos/cm @25C	1	01/27/2023 11:45	R324367
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**555**	mg/L	2.5	01/31/2023 8:51	R324271
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	02/06/2023 15:47	R324440
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.30**	mg/L	1	02/07/2023 10:09	R324472
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**26**	mg/L	1	02/06/2023 15:46	R324453
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**0.0336**	mg/L	1	02/02/2023 13:21	202449
Barium	NELAP	0.0025		**0.360**	mg/L	1	02/02/2023 13:21	202449
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/02/2023 13:21	202449
Boron	NELAP	0.0200		**0.0849**	mg/L	1	02/02/2023 13:21	202449
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/02/2023 13:21	202449
Calcium	NELAP	0.100		**95.1**	mg/L	1	02/02/2023 13:21	202449
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/02/2023 13:21	202449
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/02/2023 13:21	202449
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/02/2023 13:21	202449
Lithium	NELAP	0.0050		**0.0201**	mg/L	1	02/06/2023 17:49	202449
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/02/2023 13:21	202449
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/07/2023 1:27	202449
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/07/2023 1:27	202449
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/07/2023 1:27	202449
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/01/2023 18:38	202480
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	02/14/2023 0:00	R325259
Radium-228	*	0		**See Attached**	pci/L	1	02/14/2023 0:00	R325259

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 23010325
Report Date: 07-Mar-23

Carrier: John Riley

Completed by: Lindsey Maddox
On: 30-Jan-23

Received By: ANC

Reviewed by: Shelly A. Hennessy
On: 30-Jan-23

Pages to follow: Chain of custody 2 Extra pages included 23

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 0.0
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

pH strip #87147 TSM. - lmaddox - 1/30/2023 10:36:29 AM

Additional Nitric Acid (86511) was needed in the 2 liter containers of AP-1, AP-2, AP-3, AP-4(2 of 2) upon arrival at the laboratory. - lmaddox - 1/30/2023 10:36:48 AM

Print PDF

CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 23010325

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 0 °C #5
Preserved in: [X] LAB [ ] FIELD FOR LAB USE ONLY
LAB NOTES: 87147 TM Added HNO_3(8051l) to AP-1 (1 of 2), AP-2, AP-3, AP-4 (1 of 2)

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [✓] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb Se Tl (ICPMS) As Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
STALEY/JCOP

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other ____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	CL F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
23010325-001	RW-3	~~01/20/23 1140~~ *1430	Groundwater	1	3								✓	✓	✓	✓	✓	✓
002	AP-1	*11:19 3/7/23 01/27/23 *1316	Groundwater	1	3								✓	✓	✓	✓	✓	✓
003	AP-2	01/27/23 1056	Groundwater	1	3								✓	✓	✓	✓	✓	✓
004	AP-3	01/25/23 1035	Groundwater	1	3								✓	✓	✓	✓	✓	✓
005	AP-4	01/26/23 1351	Groundwater	1	3								✓	✓	✓	✓	✓	✓
006	AP-5	01/27/23 2401	Groundwater	1	3								✓	✓	✓	✓	✓	✓
007	AP-6	01/26/23 1205	Groundwater	1	3								✓	✓	✓	✓	✓	✓
008	AP-7	FROZEN	Groundwater	1	3								✓	✓	✓	✓	✓	✓
009	AP-8	01/27/23 1145	Groundwater	1	3								✓	✓	✓	✓	✓	✓
010	AP-9	FROZEN	Groundwater	1	3								✓	✓	✓	✓	✓	✓
011	AP-10	FROZEN	Groundwater	1	3								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
	01/31/23 0920	Allison Colin	1/20/23 0920

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

Print PDF

CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 23010325

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb Se Tl (ICPMS) As Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
23010325-012	AP-11	FROZEN	Groundwater	1	3								✔	✔	✔	✔	✔	✔
013	AP-12	FROZEN	Groundwater	1	3								✔	✔	✔	✔	✔	✔
014	AP-13	FROZEN	Groundwater	1	3								✔	✔	✔	✔	✔	✔
015	AP-14	FROZEN	Groundwater	1	3								✔	✔	✔	✔	✔	✔
			Groundwater										✔	✔	✔	✔	✔	✔
			Groundwater										✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
	01/31/23 0720		

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

Summit Environmental Technologies, Inc.
3310 Win St.
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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

February 22, 2023

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 23010325

Order No.: 23020178

Dear Shelly Hennessy:

Summit Environmental Technologies, Inc. received 8 sample(s) on 2/2/2023 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Case Narrative

WO#: **23020178**
Date: **2/22/2023**

CLIENT: TEKLAB Inc,
Project: 23010325

WorkOrder Narrative:
23020178: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Sequence QC Notes:
LCSD-62679 Radium-226_DW(903.0): LCSD-62679 exhibited a high recovery and RPD, the batch is in control by LCS/QCS-62679

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, In
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-44
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **23020178**
Date: **2/22/2023**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Workorder Sample Summary

WO#: **23020178**
22-Feb-23

CLIENT: TEKLAB Inc,
Project: 23010325

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23020178-001	23010325-001		1/26/2023 2:20:00 PM	2/2/2023 1:05:00 PM	Non-Potable Water
23020178-002	23010325-002		1/27/2023 1:19:00 PM	2/2/2023 1:05:00 PM	Non-Potable Water
23020178-003	23010325-003		1/27/2023 10:55:00 AM	2/2/2023 1:05:00 PM	Non-Potable Water
23020178-004	23010325-004		1/27/2023 10:35:00 AM	2/2/2023 1:05:00 PM	Non-Potable Water
23020178-005	23010325-005		1/26/2023 1:51:00 PM	2/2/2023 1:05:00 PM	Non-Potable Water
23020178-006	23010325-006		1/27/2023 12:40:00 PM	2/2/2023 1:05:00 PM	Non-Potable Water
23020178-007	23010325-007		1/27/2023 12:05:00 PM	2/2/2023 1:05:00 PM	Non-Potable Water
23020178-008	23010325-009		1/27/2023 11:45:00 AM	2/2/2023 1:05:00 PM	Non-Potable Water

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DATES REPORT

WO#: **23020178**

22-Feb-23

Client: TEKLAB Inc,

Project: 23010325

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23020178-001A	23010325-001	1/26/2023 2:20:00 PM	Non-Potable Water	Combined Radium (EPA903+904)		2/7/2023 10:11:00 AM	2/17/2023 5:17:57 PM
				Radium-226 (EPA 903.0)		2/7/2023 10:11:00 AM	2/15/2023
				Radium-228 (EPA 904.0)		2/7/2023 10:11:00 AM	2/14/2023 1:39:00 PM
23020178-002A	23010325-002	1/27/2023 1:19:00 PM		Combined Radium (EPA903+904)		2/7/2023 10:11:00 AM	2/17/2023 5:17:57 PM
				Radium-226 (EPA 903.0)		2/7/2023 10:11:00 AM	2/15/2023
				Radium-228 (EPA 904.0)		2/7/2023 10:11:00 AM	2/14/2023 1:39:00 PM
23020178-003A	23010325-003	1/27/2023 10:55:00 AM		Combined Radium (EPA903+904)		2/7/2023 10:11:00 AM	2/17/2023 5:17:57 PM
				Radium-226 (EPA 903.0)		2/7/2023 10:11:00 AM	2/15/2023
				Radium-228 (EPA 904.0)		2/7/2023 10:11:00 AM	2/14/2023 1:39:00 PM
23020178-004A	23010325-004	1/27/2023 10:35:00 AM		Combined Radium (EPA903+904)		2/7/2023 10:11:00 AM	2/17/2023 5:17:57 PM
				Radium-226 (EPA 903.0)		2/7/2023 10:11:00 AM	2/15/2023
				Radium-228 (EPA 904.0)		2/7/2023 10:11:00 AM	2/14/2023 1:39:00 PM
23020178-005A	23010325-005	1/26/2023 1:51:00 PM		Combined Radium (EPA903+904)		2/7/2023 10:11:00 AM	2/17/2023 5:17:57 PM
				Radium-226 (EPA 903.0)		2/7/2023 10:11:00 AM	2/15/2023
				Radium-228 (EPA 904.0)		2/7/2023 10:11:00 AM	2/14/2023 1:39:00 PM
23020178-006A	23010325-006	1/27/2023 12:40:00 PM		Combined Radium (EPA903+904)		2/7/2023 10:11:00 AM	2/17/2023 5:17:57 PM
				Radium-226 (EPA 903.0)		2/7/2023 10:11:00 AM	2/15/2023
				Radium-228 (EPA 904.0)		2/7/2023 10:11:00 AM	2/14/2023 1:39:00 PM
23020178-007A	23010325-007	1/27/2023 12:05:00 PM		Combined Radium (EPA903+904)		2/7/2023 10:11:00 AM	2/17/2023 5:17:57 PM
				Radium-226 (EPA 903.0)		2/7/2023 10:11:00 AM	2/15/2023
				Radium-228 (EPA 904.0)		2/7/2023 10:11:00 AM	2/14/2023 1:39:00 PM
23020178-008A	23010325-009	1/27/2023 11:45:00 AM		Combined Radium (EPA903+904)		2/7/2023 10:11:00 AM	2/17/2023 5:17:57 PM
				Radium-226 (EPA 903.0)		2/7/2023 10:11:00 AM	2/15/2023

Original

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DATES REPORT

WO#: **23020178**

22-Feb-23

Client: TEKLAB Inc,

Project: 23010325

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23020178-008A	23010325-009	1/27/2023 11:45:00 AM	Non-Potable Water	Radium-228 (EPA 904.0)		2/7/2023 10:11:00 AM	2/14/2023 1:39:00 PM

Original

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Analytical Report

(consolidated)

WO#: **23020178**

Date Reported: **2/22/2023**

CLIENT: TEKLAB Inc,

Collection Date: 1/26/2023 2:20:00 PM

Project: 23010325

Lab ID: 23020178-001

Matrix: NON-POTABLE WATER

Client Sample ID: 23010325-001

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **HDJ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	0.28	2.00	U	pCi/L	± 0.54	1	2/17/2023 5:17:57 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	0.28	1.00	U	pCi/L	± 0.11	1	2/15/2023
Yield	1					1	2/15/2023
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	-0.37	1.00	U	pCi/L	± 0.43	1	2/14/2023 1:39:00 PM
Yield	0.98					1	2/14/2023 1:39:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

Summit Environmental Technologies, Inc.
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Analytical Report

(consolidated)

WO#: **23020178**

Date Reported: **2/22/2023**

CLIENT: TEKLAB Inc,
Collection Date: 1/27/2023 1:19:00 PM

Project: 23010325

Lab ID: 23020178-002
Matrix: NON-POTABLE WATER

Client Sample ID: 23010325-002

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **HDJ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	1.38	2.00	U	pCi/L	± 0.64	1	2/17/2023 5:17:57 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	0.45	1.00	U	pCi/L	± 0.14	1	2/15/2023
Yield	0.96					1	2/15/2023
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	0.93	1.00	J	pCi/L	± 0.5	1	2/14/2023 1:39:00 PM
Yield	0.96					1	2/14/2023 1:39:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

Summit Environmental Technologies, Inc.
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Analytical Report

(consolidated)

WO#: **23020178**

Date Reported: **2/22/2023**

CLIENT: TEKLAB Inc,
Project: 23010325
Lab ID: 23020178-003
Client Sample ID: 23010325-003

Collection Date: 1/27/2023 10:55:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **HDJ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	0.87	2.00	U	pCi/L	± 0.56	1	2/17/2023 5:17:57 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	0.41	1.00	U	pCi/L	± 0.14	1	2/15/2023
Yield	0.91					1	2/15/2023
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	0.46	1.00	U	pCi/L	± 0.42	1	2/14/2023 1:39:00 PM
Yield	0.92					1	2/14/2023 1:39:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

Summit Environmental Technologies, Inc.
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Analytical Report

(consolidated)

WO#: **23020178**

Date Reported: **2/22/2023**

CLIENT: TEKLAB Inc,
Project: 23010325
Lab ID: 23020178-004
Client Sample ID: 23010325-004

Collection Date: 1/27/2023 10:35:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **HDJ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	0.54	2.00	U	pCi/L	± 0.53	1	2/17/2023 5:17:57 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	0.13	1.00	U	pCi/L	± 0.08	1	2/15/2023
Yield	0.97					1	2/15/2023
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	0.41	1.00	U	pCi/L	± 0.45	1	2/14/2023 1:39:00 PM
Yield	0.97					1	2/14/2023 1:39:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

Summit Environmental Technologies, Inc.
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Analytical Report

(consolidated)

WO#: **23020178**

Date Reported: **2/22/2023**

CLIENT: TEKLAB Inc,

Collection Date: 1/26/2023 1:51:00 PM

Project: 23010325

Lab ID: 23020178-005

Matrix: NON-POTABLE WATER

Client Sample ID: 23010325-005

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **HDJ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	1.04	2.00	U	pCi/L	± 0.56	1	2/17/2023 5:17:57 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	0.58	1.00	U	pCi/L	± 0.15	1	2/15/2023
Yield	1					1	2/15/2023
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	0.46	1.00	U	pCi/L	± 0.41	1	2/14/2023 1:39:00 PM
Yield	1					1	2/14/2023 1:39:00 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **23020178**

Date Reported: **2/22/2023**

CLIENT: TEKLAB Inc,
Collection Date: 1/27/2023 12:40:00 PM

Project: 23010325

Lab ID: 23020178-006
Matrix: NON-POTABLE WATER

Client Sample ID: 23010325-006

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **HDJ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	1.29	2.00	U	pCi/L	± 0.62	1	2/17/2023 5:17:57 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	0.1	1.00	U	pCi/L	± 0.07	1	2/15/2023
Yield	1					1	2/15/2023
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	1.19	1.00		pCi/L	± 0.55	1	2/14/2023 1:39:00 PM
Yield	1					1	2/14/2023 1:39:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **23020178**

Date Reported: **2/22/2023**

CLIENT: TEKLAB Inc,
Collection Date: 1/27/2023 12:05:00 PM

Project: 23010325

Lab ID: 23020178-007
Matrix: NON-POTABLE WATER

Client Sample ID: 23010325-007

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **HDJ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	0.47	2.00	U	pCi/L	± 0.51	1	2/17/2023 5:17:57 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	0.32	1.00	U	pCi/L	± 0.13	1	2/15/2023
Yield	0.96					1	2/15/2023
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	0.15	1.00	U	pCi/L	± 0.38	1	2/14/2023 1:39:00 PM
Yield	0.98					1	2/14/2023 1:39:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **23020178**

Date Reported: **2/22/2023**

CLIENT: TEKLAB Inc,
Project: 23010325
Lab ID: 23020178-008
Client Sample ID: 23010325-009

Collection Date: 1/27/2023 11:45:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **HDJ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	1.98	2.00	U	pCi/L	± 0.75	1	2/17/2023 5:17:57 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	1.11	1.00		pCi/L	± 0.21	1	2/15/2023
Yield	1					1	2/15/2023
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	0.87	1.00	J	pCi/L	± 0.54	1	2/14/2023 1:39:00 PM
Yield	1					1	2/14/2023 1:39:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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QC SUMMARY REPORT

WO#: **23020178**

22-Feb-23

Client: TEKLAB Inc,
Project: 23010325 **BatchID:** **62679**

Sample ID: **23020178-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/7/2023** RunNo: **158366**
Client ID: **23010325-001** Batch ID: **62679** TestNo: **E904.0** **E903-904** Analysis Date: **2/14/2023** SeqNo: **4210556**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	0.44	1.00		0	0			0	0	30	U
Yield	1			0	0			0.9800	2.02		

Sample ID: **23020178-002ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/7/2023** RunNo: **158366**
Client ID: **23010325-002** Batch ID: **62679** TestNo: **E904.0** **E903-904** Analysis Date: **2/14/2023** SeqNo: **4210558**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.24	1.00		0	0			0.9300	28.6	30	
Yield	1			0	0			0.9600	4.08		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **23020178**

22-Feb-23

Client: TEKLAB Inc,
Project: 23010325 **BatchID:** **62679**

Sample ID: **MB-62679**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/7/2023**	RunNo: **158366**
Client ID: **PBW**	Batch ID: **62679**	TestNo: **E904.0**	**E903-904**	Analysis Date: **2/14/2023**	SeqNo: **4210547**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						U
Yield	0.810			0	0						

Sample ID: **LCS-62679**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/7/2023**	RunNo: **158366**
Client ID: **LCSW**	Batch ID: **62679**	TestNo: **E904.0**	**E903-904**	Analysis Date: **2/14/2023**	SeqNo: **4210548**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.71	1.00	5.000	0	74.2	70	130				
Yield	0.920			0	0						

Sample ID: **LCSD-62679**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/7/2023**	RunNo: **158366**
Client ID: **LCSS02**	Batch ID: **62679**	TestNo: **E904.0**	**E903-904**	Analysis Date: **2/14/2023**	SeqNo: **4210549**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.54	1.00	5.000	0	70.8	70	130	3.710	4.69	20	
Yield	0.860			0	0			0.9200	6.74		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
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QC SUMMARY REPORT

WO#: **23020178**

22-Feb-23

Client: TEKLAB Inc,
Project: 23010325 **BatchID:** **62679**

Sample ID: **RLC-62679**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/7/2023**	RunNo: **158366**
Client ID: **BatchQC**	Batch ID: **62679**	TestNo: **E904.0**	**E903-904**	Analysis Date: **2/14/2023**	SeqNo: **4210551**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.21	1.00	1.000	0	121	50	150				
Yield	0.920			0	0						

Sample ID: **RLCD-62679**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/7/2023**	RunNo: **158366**
Client ID: **BatchQC**	Batch ID: **62679**	TestNo: **E904.0**	**E903-904**	Analysis Date: **2/14/2023**	SeqNo: **4210552**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	0.900	1.00	1.000	0	90.0	50	150				J
Yield	0.910			0	0						

Sample ID: **23020315-001AMS**	SampType: **MS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **2/7/2023**	RunNo: **158366**
Client ID: **BatchQC**	Batch ID: **62679**	TestNo: **E904.0**	**E903-904**	Analysis Date: **2/14/2023**	SeqNo: **4210553**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.22	1.00	5.000	0	84.4	70	130				
Yield	1.00			0.9700	0						

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **23020178**

22-Feb-23

Client: TEKLAB Inc,
Project: 23010325 **BatchID:** **62679**

Sample ID: **23020178-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/7/2023** RunNo: **158369**
Client ID: **23010325-001** Batch ID: **62679** TestNo: **E903.0** **E903-904** Analysis Date: **2/15/2023** SeqNo: **4210647**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	0.39	1.00						0	0	30	U
Yield	0.99							1.000	1.01	0	

Sample ID: **23020178-002ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/7/2023** RunNo: **158369**
Client ID: **23010325-002** Batch ID: **62679** TestNo: **E903.0** **E903-904** Analysis Date: **2/15/2023** SeqNo: **4210649**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	0.64	1.00						0	0	30	U
Yield	0.98							0.9600	2.06	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **23020178**

22-Feb-23

Client: TEKLAB Inc,
Project: 23010325 **BatchID:** **62679**

Sample ID: **MB-62679** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/7/2023** RunNo: **158369**
Client ID: **PBW** Batch ID: **62679** TestNo: **E903.0** **E903-904** Analysis Date: **2/15/2023** SeqNo: **4210638**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									U
Yield	0.850										

Sample ID: **LCS-62679** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/7/2023** RunNo: **158369**
Client ID: **LCSW** Batch ID: **62679** TestNo: **E903.0** **E903-904** Analysis Date: **2/15/2023** SeqNo: **4210639**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.28	1.00	5.000	0	106	70	130				QLR

Sample ID: **RLC-62679** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/7/2023** RunNo: **158369**
Client ID: **BatchQC** Batch ID: **62679** TestNo: **E903.0** **E903-904** Analysis Date: **2/15/2023** SeqNo: **4210642**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.29	1.00	1.000	0	129	50	150				

Sample ID: **RLCD-62679** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/7/2023** RunNo: **158369**
Client ID: **BatchQC** Batch ID: **62679** TestNo: **E903.0** **E903-904** Analysis Date: **2/15/2023** SeqNo: **4210643**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **23020178**

22-Feb-23

Client: TEKLAB Inc,
Project: 23010325 **BatchID:** **62679**

Sample ID: **RLCD-62679** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/7/2023** RunNo: **158369**
Client ID: **BatchQC** Batch ID: **62679** TestNo: **E903.0** **E903-904** Analysis Date: **2/15/2023** SeqNo: **4210643**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.22	1.00	1.000	0	122	50	150				

Sample ID: **23020315-001AMS** SampType: **MS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **2/7/2023** RunNo: **158369**
Client ID: **BatchQC** Batch ID: **62679** TestNo: **E903.0** **E903-904** Analysis Date: **2/15/2023** SeqNo: **4210644**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.63	1.00	5.000	0	113	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: Sampler: QC Level: 3

Comments: **Please issue reports and invoices via email only**
Please analyze for Radium (226, 228, and combined) by method EPA903.0/904.0
on standard TAT Please include negative values (no ND).
Batch QC and CCR EDD are required. Receipt summary requested

23020178

Project# 23010325

Contact: Shelly A Hennessy Email: SHennessy@TeklabInc.com
Requested Due Date: 20 business days or less Billing/PO: 33924 Phone: 618-344-1004

State of Origin:

PLEASE NOTE:
NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.
Changes to analysis/methods must be approved by Teklab, Inc.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226	Radium 228	Combined Radium	GPM		pH							
	23010325-001	1/26/23 1420	HNO3	Groundwater	✔	✔	✔	37	23	1	1						
	23010325-002	1/27/23 1319	HNO3	Groundwater	✔	✔	✔	24	23	1	1						
	23010325-003	1/27/23 1055	HNO3	Groundwater	✔	✔	✔	20	23	1	1						
	23010325-004	1/27/23 1035	HNO3	Groundwater	✔	✔	✔	30	10	1	1						
	23010325-005	1/26/23 1351	HNO3	Groundwater	✔	✔	✔	16	20	1	1						
	23010325-006	1/27/23 1240	HNO3	Groundwater	✔	✔	✔	20	27	1	1						
	23010325-007	1/27/23 1205	HNO3	Groundwater	✔	✔	✔	23	27	1	1						
	23010325-009	1/27/23 1145	HNO3	Groundwater	✔	✔	✔	16	40	1	1						
			Unpres	Aqueous													
			Unpres	Aqueous													
			Unpres	Aqueous													

*Relinquished By	Date/Time	Received By	Date/Time
	1/30/23		
		Fedex	2/2/23 1325

2 coolers @ 4.6+0.3 = 4.9 @ 4.5+0.3 = 4.8

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA
3/2/2016

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **23020178** RcptNo: **1**

Logged by:	**Anthony W. Britton**	**2/2/2023 1:05:00 PM**	Anthony Britton
Completed By:	**Anthony W. Britton**	**2/2/2023 7:00:57 PM**	Anthony Britton
Reviewed By:	**Jennifer Woolf**	**2/3/2023 10:02:23 AM**	Jennifer Woolf

Chain of Custody

1.	Were seals intact?	Yes ☑	No ☐	Not Present ☐
2.	Is Chain of Custody complete?	Yes ☐	No ☑	Not Present ☐
3.	How was the sample delivered?	FedEx		

Log In

4.	Coolers are present?	Yes ☐	No ☑	NA ☐
5.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
7.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
8.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
9.	Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
10.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
11.	Is the headspace in the VOA vials less than 1/4 inch or 6 mm?	Yes ☐	No ☐	No VOA Vials ☑
12.	Were any sample containers received broken?	Yes ☐	No ☑	
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
14.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
15.	Is it clear what analyses were requested?	Yes ☑	No ☐	
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

IL per email
project address not included

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.8	Good	Not Present			

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **23020178** RcptNo: **1**

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
2	4.9	Good	Not Present			

April 2023 Laboratory Analytical Report

May 24, 2023

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 23040094

Dear Eric Staley:

TEKLAB, INC received 15 samples on 4/17/2023 6:34:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 23040094
Report Date: 24-May-23

This reporting package includes the following:

Cover Letter	1
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Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 23040094

Client Project: Ash Pond Monitoring Wells **Report Date:** 24-May-23

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power
Work Order: 23040094

Client Project: Ash Pond Monitoring Wells
Report Date: 24-May-23

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 23040094
Report Date: 24-May-23

Cooler Receipt Temp: 7.8 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 and Radium-228 analysis was performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 23040094
Report Date: 24-May-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2023	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2023	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2023	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2023	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: City Water, Light & Power **Work Order:** 23040094

Client Project: Ash Pond Monitoring Wells **Report Date:** 24-May-23

Lab ID: 23040094-001 **Client Sample ID:** RW-3

Matrix: GROUNDWATER **Collection Date:** 04/11/2023 12:24

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	04/11/2023 12:24	R327742
Depth to water	*	-5.00		**6.04**	ft	1	04/11/2023 12:24	R327742
Depth to water from measuring point	*	0		**8.74**	ft	1	04/11/2023 12:24	R327742
Elevation of groundwater surface	*	0		**530.76**	ft	1	04/11/2023 12:24	R327742
Measuring Point Elevation	*	0		**539.50**	ft	1	04/11/2023 12:24	R327742
Measuring Point Height Above Land Surface	*	0		**2.70**	ft	1	04/11/2023 12:24	R327742
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**4.5**	NTU	1	04/11/2023 12:24	R327742
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.6**	°F	1	04/11/2023 12:24	R327742
SW-846 9040B								
pH, Field	*	1.00		**7.06**		1	04/11/2023 12:24	R327742
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**749**	µmhos/cm @25C	1	04/11/2023 12:24	R327742
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**426**	mg/L	1	04/14/2023 10:00	R327370
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	04/17/2023 20:21	R327359
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.52**	mg/L	1	04/13/2023 11:01	R327239
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**31**	mg/L	1	04/17/2023 20:21	R327452
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**0.145**	mg/L	1	04/14/2023 16:13	204956
Barium	NELAP	0.0025		**0.172**	mg/L	1	04/14/2023 16:13	204956
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	04/14/2023 16:13	204956
Boron	NELAP	0.0200		**0.186**	mg/L	1	04/14/2023 16:13	204956
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	04/14/2023 16:13	204956
Calcium	NELAP	0.100		**70.5**	mg/L	1	04/14/2023 16:13	204956
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/14/2023 16:13	204956
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	04/14/2023 16:13	204956
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	04/14/2023 16:13	204956
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/14/2023 16:13	204956
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	04/14/2023 16:13	204956
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	04/17/2023 19:30	204956
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	04/17/2023 19:30	204956
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	04/17/2023 19:30	204956
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	04/14/2023 15:00	204954
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	05/09/2023 0:00	R329224
Radium-228	*	0		**See attached**	pci/L	1	05/09/2023 0:00	R329224

Client: City Water, Light & Power
Work Order: 23040094
Client Project: Ash Pond Monitoring Wells
Report Date: 24-May-23
Lab ID: 23040094-002
Client Sample ID: AP-1
Matrix: GROUNDWATER
Collection Date: 04/12/2023 12:49

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**504.29**	ft	1	04/12/2023 12:49	R327742
Depth to water	*	-5.00		**7.65**	ft	1	04/12/2023 12:49	R327742
Depth to water from measuring point	*	0		**9.92**	ft	1	04/12/2023 12:49	R327742
Elevation of groundwater surface	*	0		**525.45**	ft	1	04/12/2023 12:49	R327742
Measuring Point Elevation	*	0		**535.37**	ft	1	04/12/2023 12:49	R327742
Measuring Point Height Above Land Surface	*	0		**2.27**	ft	1	04/12/2023 12:49	R327742
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**13**	NTU	1	04/12/2023 12:49	R327742
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.2**	°F	1	04/12/2023 12:49	R327742
SW-846 9040B								
pH, Field	*	1.00		**6.52**		1	04/12/2023 12:49	R327742
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1910**	µmhos/cm @25C	1	04/12/2023 12:49	R327742
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1540**	mg/L	1	04/14/2023 10:00	R327370
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**768**	mg/L	20	04/17/2023 20:33	R327359
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.27**	mg/L	1	04/13/2023 11:03	R327239
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**60**	mg/L	5	04/17/2023 20:29	R327452
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	04/14/2023 16:17	204956
Barium	NELAP	0.0025		**0.329**	mg/L	1	04/14/2023 16:17	204956
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	04/14/2023 16:17	204956
Boron	NELAP	0.200		**21.2**	mg/L	10	04/19/2023 17:57	204956
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	04/14/2023 16:17	204956
Calcium	NELAP	0.100		**242**	mg/L	1	04/14/2023 16:17	204956
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/14/2023 16:17	204956
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	04/14/2023 16:17	204956
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	04/14/2023 16:17	204956
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/14/2023 16:17	204956
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	04/14/2023 16:17	204956
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	04/17/2023 19:36	204956
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	04/17/2023 19:36	204956
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	04/17/2023 19:36	204956
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	04/14/2023 15:02	204954
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	05/08/2023 0:00	R329224
Radium-228	*	0		**See attached**	pci/L	1	05/08/2023 0:00	R329224

Client: City Water, Light & Power
Work Order: 23040094
Client Project: Ash Pond Monitoring Wells
Report Date: 24-May-23
Lab ID: 23040094-003
Client Sample ID: AP-2
Matrix: GROUNDWATER
Collection Date: 04/12/2023 14:49

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.77**	ft	1	04/12/2023 14:49	R327742
Depth to water	*	-5.00		**4.74**	ft	1	04/12/2023 14:49	R327742
Depth to water from measuring point	*	0		**7.24**	ft	1	04/12/2023 14:49	R327742
Elevation of groundwater surface	*	0		**528.86**	ft	1	04/12/2023 14:49	R327742
Measuring Point Elevation	*	0		**536.10**	ft	1	04/12/2023 14:49	R327742
Measuring Point Height Above Land Surface	*	0		**2.50**	ft	1	04/12/2023 14:49	R327742
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**9.2**	NTU	1	04/12/2023 14:49	R327742
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.6**	°F	1	04/12/2023 14:49	R327742
SW-846 9040B								
pH, Field	*	1.00		**6.44**		1	04/12/2023 14:49	R327742
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1470**	µmhos/cm @25C	1	04/12/2023 14:49	R327742
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1100**	mg/L	1	04/14/2023 10:00	R327370
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**462**	mg/L	20	04/17/2023 20:42	R327359
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.22**	mg/L	1	04/13/2023 11:05	R327239
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**37**	mg/L	1	04/17/2023 20:36	R327452
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	04/14/2023 16:20	204956
Barium	NELAP	0.0025		**0.0656**	mg/L	1	04/14/2023 16:20	204956
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	04/14/2023 16:20	204956
Boron	NELAP	0.0200		**3.70**	mg/L	1	04/14/2023 16:20	204956
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	04/14/2023 16:20	204956
Calcium	NELAP	0.100		**210**	mg/L	1	04/14/2023 16:20	204956
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/14/2023 16:20	204956
Cobalt	NELAP	0.0050		**0.0102**	mg/L	1	04/14/2023 16:20	204956
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	04/14/2023 16:20	204956
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/14/2023 16:20	204956
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	04/14/2023 16:20	204956
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	04/17/2023 19:43	204956
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	04/17/2023 19:43	204956
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	04/17/2023 19:43	204956
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	04/14/2023 15:04	204954
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	05/09/2023 0:00	R329224
Radium-228	*	0		**See attached**	pci/L	1	05/09/2023 0:00	R329224

Client: City Water, Light & Power
Work Order: 23040094
Client Project: Ash Pond Monitoring Wells
Report Date: 24-May-23
Lab ID: 23040094-004
Client Sample ID: AP-3
Matrix: GROUNDWATER
Collection Date: 04/12/2023 15:26

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.45**	ft	1	04/12/2023 15:26	R327742
Depth to water	*	-5.00		**7.93**	ft	1	04/12/2023 15:26	R327742
Depth to water from measuring point	*	0		**9.63**	ft	1	04/12/2023 15:26	R327742
Elevation of groundwater surface	*	0		**525.77**	ft	1	04/12/2023 15:26	R327742
Measuring Point Elevation	*	0		**535.40**	ft	1	04/12/2023 15:26	R327742
Measuring Point Height Above Land Surface	*	0		**1.70**	ft	1	04/12/2023 15:26	R327742
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**6.2**	NTU	1	04/12/2023 15:26	R327742
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.6**	°F	1	04/12/2023 15:26	R327742
SW-846 9040B								
pH, Field	*	1.00		**6.64**		1	04/12/2023 15:26	R327742
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1300**	µmhos/cm @25C	1	04/12/2023 15:26	R327742
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**984**	mg/L	1	04/14/2023 10:01	R327370
SW-846 9036 (TOTAL)								
Sulfate	NELAP	100		**483**	mg/L	10	04/17/2023 21:05	R327359
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.22**	mg/L	1	04/13/2023 11:06	R327239
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**59**	mg/L	5	04/17/2023 21:00	R327452
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	04/14/2023 16:39	204956
Barium	NELAP	0.0025		**0.103**	mg/L	1	04/14/2023 16:39	204956
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	04/14/2023 16:39	204956
Boron	NELAP	0.0200		**14.3**	mg/L	1	04/14/2023 16:39	204956
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	04/14/2023 16:39	204956
Calcium	NELAP	0.100		**168**	mg/L	1	04/14/2023 16:39	204956
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/14/2023 16:39	204956
Cobalt	NELAP	0.0050		**0.0054**	mg/L	1	04/14/2023 16:39	204956
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	04/14/2023 16:39	204956
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/14/2023 16:39	204956
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	04/14/2023 16:39	204956
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	04/17/2023 19:49	204956
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	04/17/2023 19:49	204956
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	04/17/2023 19:49	204956
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	04/14/2023 15:11	204954
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	05/09/2023 0:00	R329224
Radium-228	*	0		**See attached**	pci/L	1	05/09/2023 0:00	R329224

Client: City Water, Light & Power **Work Order:** 23040094

Client Project: Ash Pond Monitoring Wells **Report Date:** 24-May-23

Lab ID: 23040094-005 **Client Sample ID:** AP-4

Matrix: GROUNDWATER **Collection Date:** 04/13/2023 10:13

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**492.46**	ft	1	04/13/2023 10:13	R327742
Depth to water	*	-5.00		**6.38**	ft	1	04/13/2023 10:13	R327742
Depth to water from measuring point	*	0		**9.52**	ft	1	04/13/2023 10:13	R327742
Elevation of groundwater surface	*	0		**546.08**	ft	1	04/13/2023 10:13	R327742
Measuring Point Elevation	*	0		**555.60**	ft	1	04/13/2023 10:13	R327742
Measuring Point Height Above Land Surface	*	0		**3.14**	ft	1	04/13/2023 10:13	R327742
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**10**	NTU	1	04/13/2023 10:13	R327742
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.4**	°F	1	04/13/2023 10:13	R327742
SW-846 9040B								
pH, Field	*	1.00		**6.82**		1	04/13/2023 10:13	R327742
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**969**	µmhos/cm @25C	1	04/13/2023 10:13	R327742
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**534**	mg/L	1	04/14/2023 11:14	R327370
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	05/01/2023 17:02	R328161
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.14**	mg/L	1	04/21/2023 12:37	R327650
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**14**	mg/L	1	04/17/2023 21:08	R327452
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**0.0250**	mg/L	1	04/17/2023 13:48	204986
Barium	NELAP	0.0025	B	**0.404**	mg/L	1	04/17/2023 13:48	204986
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	04/17/2023 13:48	204986
Boron	NELAP	0.0200		**0.101**	mg/L	1	04/17/2023 13:48	204986
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	04/17/2023 13:48	204986
Calcium	NELAP	0.100		**125**	mg/L	1	04/17/2023 13:48	204986
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/17/2023 13:48	204986
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	04/17/2023 13:48	204986
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	04/17/2023 13:48	204986
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/17/2023 13:48	204986
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	04/17/2023 13:48	204986
Sample result(s) for Ba exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	04/17/2023 15:42	204986
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	04/17/2023 15:42	204986
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	04/17/2023 15:42	204986
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	04/17/2023 11:09	204996
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	05/09/2023 0:00	R329224
Radium-228	*	0		**See attached**	pci/L	1	05/09/2023 0:00	R329224

Client: City Water, Light & Power
Work Order: 23040094
Client Project: Ash Pond Monitoring Wells
Report Date: 24-May-23
Lab ID: 23040094-006
Client Sample ID: AP-5
Matrix: GROUNDWATER
Collection Date: 04/13/2023 11:27

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**552.63**	ft	1	04/13/2023 11:27	R327742
Depth to water	*	-5.00		**10.75**	ft	1	04/13/2023 11:27	R327742
Depth to water from measuring point	*	0		**13.05**	ft	1	04/13/2023 11:27	R327742
Elevation of groundwater surface	*	0		**570.85**	ft	1	04/13/2023 11:27	R327742
Measuring Point Elevation	*	0		**583.90**	ft	1	04/13/2023 11:27	R327742
Measuring Point Height Above Land Surface	*	0		**2.30**	ft	1	04/13/2023 11:27	R327742
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**5.3**	NTU	1	04/13/2023 11:27	R327742
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**54.7**	°F	1	04/13/2023 11:27	R327742
SW-846 9040B								
pH, Field	*	1.00		**7.08**		1	04/13/2023 11:27	R327742
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**698**	µmhos/cm @25C	1	04/13/2023 11:27	R327742
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**404**	mg/L	1	04/14/2023 11:15	R327370
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**44**	mg/L	1	04/17/2023 21:17	R327359
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.32**	mg/L	1	04/21/2023 12:40	R327650
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**4**	mg/L	1	04/17/2023 21:16	R327452
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	04/20/2023 18:40	205144
Barium	NELAP	0.0025		**0.0451**	mg/L	1	04/20/2023 18:40	205144
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	04/20/2023 18:40	205144
Boron	NELAP	0.0200		**0.0311**	mg/L	1	04/20/2023 18:40	205144
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	04/20/2023 18:40	205144
Calcium	NELAP	0.100		**80.4**	mg/L	1	04/20/2023 18:40	205144
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/20/2023 18:40	205144
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	04/20/2023 18:40	205144
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	04/20/2023 18:40	205144
Lithium	NELAP	0.0050		**0.0074**	mg/L	1	04/24/2023 18:12	205144
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	04/20/2023 18:40	205144
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	04/20/2023 21:04	205144
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	04/20/2023 21:04	205144
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	04/20/2023 21:04	205144
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	04/19/2023 15:15	205181
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	05/09/2023 0:00	R329224
Radium-228	*	0		**See attached**	pci/L	1	05/09/2023 0:00	R329224

Client: City Water, Light & Power
Work Order: 23040094
Client Project: Ash Pond Monitoring Wells
Report Date: 24-May-23
Lab ID: 23040094-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 04/12/2023 11:03

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.20**	ft	1	04/12/2023 11:03	R327742
Depth to water	*	-5.00		**5.01**	ft	1	04/12/2023 11:03	R327742
Depth to water from measuring point	*	0		**7.43**	ft	1	04/12/2023 11:03	R327742
Elevation of groundwater surface	*	0		**530.39**	ft	1	04/12/2023 11:03	R327742
Measuring Point Elevation	*	0		**537.82**	ft	1	04/12/2023 11:03	R327742
Measuring Point Height Above Land Surface	*	0		**2.42**	ft	1	04/12/2023 11:03	R327742
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**4.0**	NTU	1	04/12/2023 11:03	R327742
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.2**	°F	1	04/12/2023 11:03	R327742
SW-846 9040B								
pH, Field	*	1.00		**7.02**		1	04/12/2023 11:03	R327742
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**642**	µmhos/cm @25C	1	04/12/2023 11:03	R327742
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**380**	mg/L	1	04/14/2023 11:15	R327370
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**11**	mg/L	1	04/17/2023 21:24	R327359
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.51**	mg/L	1	04/13/2023 11:08	R327239
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**31**	mg/L	1	04/17/2023 21:24	R327452
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	04/14/2023 16:43	204956
Barium	NELAP	0.0025		**0.111**	mg/L	1	04/14/2023 16:43	204956
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	04/14/2023 16:43	204956
Boron	NELAP	0.0200		**0.174**	mg/L	1	04/19/2023 17:56	204956
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	04/14/2023 16:43	204956
Calcium	NELAP	0.100		**60.9**	mg/L	1	04/14/2023 16:43	204956
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/14/2023 16:43	204956
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	04/14/2023 16:43	204956
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	04/14/2023 16:43	204956
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/14/2023 16:43	204956
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	04/14/2023 16:43	204956
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	04/17/2023 19:55	204956
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	04/17/2023 19:55	204956
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	04/17/2023 19:55	204956
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	04/14/2023 15:13	204954
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	05/09/2023 0:00	R329224
Radium-228	*	0		**See attached**	pci/L	1	05/09/2023 0:00	R329224

Client: City Water, Light & Power
Work Order: 23040094
Client Project: Ash Pond Monitoring Wells
Report Date: 24-May-23
Lab ID: 23040094-008
Client Sample ID: AP-7
Matrix: GROUNDWATER
Collection Date: 04/17/2023 15:59

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**496.50**	ft	1	04/17/2023 15:59	R327742
Depth to water	*	-5.00		**7.80**	ft	1	04/17/2023 15:59	R327742
Depth to water from measuring point	*	0		**10.46**	ft	1	04/17/2023 15:59	R327742
Elevation of groundwater surface	*	0		**528.56**	ft	1	04/17/2023 15:59	R327742
Measuring Point Elevation	*	0		**539.02**	ft	1	04/17/2023 15:59	R327742
Measuring Point Height Above Land Surface	*	0		**2.66**	ft	1	04/17/2023 15:59	R327742
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**25**	NTU	1	04/17/2023 15:59	R327742
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**54.7**	°F	1	04/17/2023 15:59	R327742
SW-846 9040B								
pH, Field	*	1.00		**7.11**		1	04/17/2023 15:59	R327742
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**712**	µmhos/cm @25C	1	04/17/2023 15:59	R327742
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**444**	mg/L	1	04/19/2023 9:21	R327565
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	05/01/2023 17:23	R328161
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.53**	mg/L	1	04/21/2023 12:41	R327650
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**70**	mg/L	2	05/01/2023 17:28	R328107
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**0.0462**	mg/L	1	04/20/2023 18:41	205144
Barium	NELAP	0.0025		**0.162**	mg/L	1	04/20/2023 18:41	205144
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	04/20/2023 18:41	205144
Boron	NELAP	0.0200		**0.391**	mg/L	1	04/20/2023 18:41	205144
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	04/20/2023 18:41	205144
Calcium	NELAP	0.100		**53.6**	mg/L	1	04/20/2023 18:41	205144
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/20/2023 18:41	205144
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	04/20/2023 18:41	205144
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	04/20/2023 18:41	205144
Lithium	NELAP	0.0050		**0.0113**	mg/L	1	04/24/2023 18:16	205144
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	04/20/2023 18:41	205144
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	04/20/2023 22:08	205144
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	04/20/2023 22:08	205144
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	04/20/2023 22:08	205144
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	04/19/2023 15:17	205181
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	05/09/2023 0:00	R329224
Radium-228	*	0		**See attached**	pci/L	1	05/09/2023 0:00	R329224

Client: City Water, Light & Power
Work Order: 23040094
Client Project: Ash Pond Monitoring Wells
Report Date: 24-May-23
Lab ID: 23040094-009
Client Sample ID: AP-8
Matrix: GROUNDWATER
Collection Date: 04/12/2023 12:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.60**	ft	1	04/12/2023 12:12	R327742
Depth to water	*	-5.00		**1.45**	ft	1	04/12/2023 12:12	R327742
Depth to water from measuring point	*	0		**4.35**	ft	1	04/12/2023 12:12	R327742
Elevation of groundwater surface	*	0		**532.85**	ft	1	04/12/2023 12:12	R327742
Measuring Point Elevation	*	0		**537.20**	ft	1	04/12/2023 12:12	R327742
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	04/12/2023 12:12	R327742
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**13**	NTU	1	04/12/2023 12:12	R327742
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.0**	°F	1	04/12/2023 12:12	R327742
SW-846 9040B								
pH, Field	*	1.00		**6.77**		1	04/12/2023 12:12	R327742
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**970**	µmhos/cm @25C	1	04/12/2023 12:12	R327742
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**544**	mg/L	1	04/14/2023 11:15	R327370
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	04/17/2023 21:32	R327359
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.33**	mg/L	1	04/13/2023 11:10	R327239
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**26**	mg/L	1	04/17/2023 21:32	R327452
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**0.0348**	mg/L	1	04/14/2023 16:46	204956
Barium	NELAP	0.0025		**0.375**	mg/L	1	04/14/2023 16:46	204956
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	04/14/2023 16:46	204956
Boron	NELAP	0.0200		**0.110**	mg/L	1	04/14/2023 16:46	204956
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	04/14/2023 16:46	204956
Calcium	NELAP	0.100		**99.1**	mg/L	1	04/14/2023 16:46	204956
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/14/2023 16:46	204956
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	04/14/2023 16:46	204956
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	04/14/2023 16:46	204956
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/14/2023 16:46	204956
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	04/14/2023 16:46	204956
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	04/17/2023 20:01	204956
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	04/17/2023 20:01	204956
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	04/17/2023 20:01	204956
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	04/14/2023 15:16	204954
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	05/09/2023 0:00	R329224
Radium-228	*	0		**See attached**	pci/L	1	05/09/2023 0:00	R329224

Client: City Water, Light & Power
Work Order: 23040094
Client Project: Ash Pond Monitoring Wells
Report Date: 24-May-23
Lab ID: 23040094-011
Client Sample ID: AP-10
Matrix: GROUNDWATER
Collection Date: 04/12/2023 13:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**499.43**	ft	1	04/12/2023 13:50	R327742
Depth to water	*	-5.00		**-0.05**	ft	1	04/12/2023 13:50	R327742
Depth to water from measuring point	*	0		**3.05**	ft	1	04/12/2023 13:50	R327742
Elevation of groundwater surface	*	0		**534.45**	ft	1	04/12/2023 13:50	R327742
Measuring Point Elevation	*	0		**537.50**	ft	1	04/12/2023 13:50	R327742
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	04/12/2023 13:50	R327742
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**5.7**	NTU	1	04/12/2023 13:50	R327742
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.8**	°F	1	04/12/2023 13:50	R327742
SW-846 9040B								
pH, Field	*	1.00		**6.68**		1	04/12/2023 13:50	R327742
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1250**	µmhos/cm @25C	1	04/12/2023 13:50	R327742
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**756**	mg/L	1	04/14/2023 11:15	R327370
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**100**	mg/L	5	04/17/2023 22:01	R327359
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.36**	mg/L	1	04/13/2023 11:11	R327239
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**28**	mg/L	1	04/17/2023 21:56	R327452
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	04/14/2023 16:50	204956
Barium	NELAP	0.0025		**0.602**	mg/L	1	04/14/2023 16:50	204956
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	04/14/2023 16:50	204956
Boron	NELAP	0.0200		**3.76**	mg/L	1	04/14/2023 16:50	204956
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	04/14/2023 16:50	204956
Calcium	NELAP	0.100		**144**	mg/L	1	04/14/2023 16:50	204956
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/14/2023 16:50	204956
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	04/14/2023 16:50	204956
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	04/14/2023 16:50	204956
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/14/2023 16:50	204956
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	04/14/2023 16:50	204956
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	04/17/2023 20:33	204956
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	04/17/2023 20:33	204956
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	04/17/2023 20:33	204956
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	04/14/2023 15:18	204954
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	05/09/2023 0:00	R329224
Radium-228	*	0		**See attached**	pci/L	1	05/09/2023 0:00	R329224

Client: City Water, Light & Power
Work Order: 23040094
Client Project: Ash Pond Monitoring Wells
Report Date: 24-May-23
Lab ID: 23040094-015
Client Sample ID: AP-14
Matrix: GROUNDWATER
Collection Date: 04/13/2023 11:06

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**508.40**	ft	1	04/13/2023 11:06	R327742
Depth to water	*	-5.00		**-0.40**	ft	1	04/13/2023 11:06	R327742
Depth to water from measuring point	*	0		**2.40**	ft	1	04/13/2023 11:06	R327742
Elevation of groundwater surface	*	0		**537.20**	ft	1	04/13/2023 11:06	R327742
Measuring Point Elevation	*	0		**539.60**	ft	1	04/13/2023 11:06	R327742
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	04/13/2023 11:06	R327742
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**12**	NTU	1	04/13/2023 11:06	R327742
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.2**	°F	1	04/13/2023 11:06	R327742
SW-846 9040B								
pH, Field	*	1.00		**6.97**		1	04/13/2023 11:06	R327742
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1720**	µmhos/cm @25C	1	04/13/2023 11:06	R327742
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1330**	mg/L	1	04/14/2023 11:16	R327370
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**707**	mg/L	20	04/17/2023 22:09	R327359
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.28**	mg/L	1	04/21/2023 13:01	R327650
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**71**	mg/L	5	04/17/2023 22:04	R327452
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	04/17/2023 14:11	204986
Barium	NELAP	0.0150		**0.0389**	mg/L	1	04/17/2023 14:11	204986
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	04/17/2023 14:11	204986
Boron	NELAP	0.200		**23.0**	mg/L	10	04/18/2023 13:22	204986
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	04/17/2023 14:11	204986
Calcium	NELAP	0.100		**233**	mg/L	1	04/17/2023 14:11	204986
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/17/2023 14:11	204986
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	04/17/2023 14:11	204986
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	04/17/2023 14:11	204986
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/17/2023 14:11	204986
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	04/17/2023 14:11	204986
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	04/17/2023 16:29	204986
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	04/17/2023 16:29	204986
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	04/17/2023 16:29	204986
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	04/17/2023 11:11	204996
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See attached**	pci/L	1	05/09/2023 0:00	R329224
Radium-228	*	0		**See attached**	pci/L	1	05/09/2023 0:00	R329224

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 23040094
Report Date: 24-May-23

Carrier: Tracy Carroll

Received By: LM

Completed by: Lindsey Maddox
On: 18-Apr-23

Reviewed by: Elizabeth A. Hurley
On: 18-Apr-23

Pages to follow: Chain of custody 6 Extra pages included 52

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 7.8
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

RW-3 was received on 4/11/23 at 1745 (on ice 10.2C - LTG1). - EAH 4/13/23

pH strip #87147. - acolin - 4/12/2023 12:43:58 PM

AP-1, AP-2, AP-3, AP-6, AP-8, and AP-10 were received on 4/12/23 at 1755 (on ice 3.8C - LTG 1). - EAH 4/13/23

pH strip #88374. - CET/TMathis - 4/13/2023 7:45:17 AM

AP-4, AP-5, and AP-14 were received on 4/13/23 at 1510 (on ice 9.0C - LTG 1). - EAH 4/13/23

AP-7, AP-9, AP-11, AP-12 and AP-13 were received on 4/17/23 at 1634 (on ice 7.8C - LTG 5). - lmaddox 4/18/23

pH strip #88374. - CET/lmaddox - 4/18/2023 9:26:13 AM

Additional Nitric Acid (89071) was needed in AP-11 upon arrival at the laboratory. - CET/lmaddox - 4/18/2023 9:26:50 AM

CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 23040094

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 10.2 °C
Preserved in: ☐ LAB ☒ FIELD FOR LAB USE ONLY
LAB NOTES: PH 87147 AC 4/12/23

Client Comments:
*elevations, pH, conductivity, temperature
**Sb Se Tl (ICPMS) As Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER: Ash Pond Monitoring Wells
SAMPLE COLLECTOR'S NAME: Colp | Tomdl

RESULTS REQUESTED: ☑ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ☐ 3 Day (50% Surcharge)
BILLING INSTRUCTIONS:

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
23040094-001	RW-3 8.74	4-11-23/ 1224	Groundwater	1	3								✔	✔	✔	✔	✔	✔
002	AP-1		Groundwater	1	3								✔	✔	✔	✔	✔	✔
003	AP-2		Groundwater	1	3								✔	✔	✔	✔	✔	✔
004	AP-3		Groundwater	1	3								✔	✔	✔	✔	✔	✔
005	AP-4		Groundwater	1	3								✔	✔	✔	✔	✔	✔
006	AP-5		Groundwater	1	3								✔	✔	✔	✔	✔	✔
007	AP-6		Groundwater	1	3								✔	✔	✔	✔	✔	✔
008	AP-7		Groundwater	1	3								✔	✔	✔	✔	✔	✔
009	AP-8		Groundwater	1	3								✔	✔	✔	✔	✔	✔
010	AP-9		Groundwater	1	3								✔	✔	✔	✔	✔	✔
011	AP-10		Groundwater	1	3								✔	✔	✔	✔	✔	✔

5+1 4/13/23

Relinquished By	Date/Time	Received By	Date/Time
Mary Carroll	4/11/23 1745	Allison Colp	4/11/23 1745

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 23040094

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [x] ICE [ ] BLUE ICE [ ] NO ICE 3.8 °C CTG
Preserved in: [ ] LAB [x] FIELD FOR LAB USE ONLY
LAB NOTES: PWS 88374.005 4-12-23.

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [x] No
Are these samples known to be hazardous? [ ] Yes [x] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [x] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb Se Tl (ICPMS) As Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Kolp + Carroll

RESULTS REQUESTED
[x] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID		Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
23040094-001	RW-3	~~9.14~~	~~4-12-23/ 1224~~	Groundwater	1	3								✓	✓	✓	✓	✓	✓
002	AP-1	9.92	4-12-23/ 1249	Groundwater	1	3								✓	✓	✓	✓	✓	✓
003	AP-2	7.24	4-12-23/ 1449	Groundwater	1	3								✓	✓	✓	✓	✓	✓
004	AP-3	9.63	4-12-23/ 1526	Groundwater	1	3								✓	✓	✓	✓	✓	✓
005	AP-4			Groundwater	1	3								✓	✓	✓	✓	✓	✓
006	AP-5			Groundwater	1	3								✓	✓	✓	✓	✓	✓
007	AP-6	7.43	4-12-23/ 1103	Groundwater	1	3								✓	✓	✓	✓	✓	✓
008	AP-7			Groundwater	1	3								✓	✓	✓	✓	✓	✓
009	AP-8	4.35	4-12-23/ 1212	Groundwater	1	3								✓	✓	✓	✓	✓	✓
010	AP-9			Groundwater	1	3								✓	✓	✓	✓	✓	✓
011	AP-10	3.05	4-12-23/ 1350	Groundwater	1	3								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
Jenny Carroll J. Glo	4-12-23 1755		4-12-23 1755

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CTG 4-12-23

CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 23040094

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power

Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building

City/State/Zip: Springfield IL 62712

Contact: Eric Staley Phone: (217) 757-8610

Email: eric.staley@cwlp.com Fax:

Samples on: [x] ICE [ ] BLUE ICE [ ] NO ICE 9.0 °C CG

Preserved in: [ ] LAB [x] FIELD FOR LAB USE ONLY

LAB NOTES: ph 8374, CBS 4-13-23.

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [x] No

Are these samples known to be hazardous? [ ] Yes [x] No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [x] Yes [ ] No Permit on file

Client Comments:

*elevations, pH, conductivity, temperature

**Sb Se Tl (ICPMS) As Ba Be B Cd Ca Cr Co Pb Li Hg Mo

Quarterly monitoring

PROJECT NAME/NUMBER

Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME

JCalp & JCandy

RESULTS REQUESTED

[x] Standard [ ] 1-2 Day (100% Surcharge)

[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID		Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
23040094-001	RW-3			Groundwater	1	3								✔	✔	✔	✔	✔	✔
002	AP-1			Groundwater	1	3								✔	✔	✔	✔	✔	✔
003	AP-2			Groundwater	1	3								✔	✔	✔	✔	✔	✔
004	AP-3			Groundwater	1	3								✔	✔	✔	✔	✔	✔
005	AP-4	9.52	4-13-23/ 1013	Groundwater	1	3								✔	✔	✔	✔	✔	✔
006	AP-5	13.05	4-13-23/ 1127	Groundwater	1	3								✔	✔	✔	✔	✔	✔
007	AP-6			Groundwater	1	3								✔	✔	✔	✔	✔	✔
008	AP-7			Groundwater	1	3								✔	✔	✔	✔	✔	✔
009	AP-8			Groundwater	1	3								✔	✔	✔	✔	✔	✔
010	AP-9			Groundwater	1	3								✔	✔	✔	✔	✔	✔
011	AP-10			Groundwater	1	3								✔	✔	✔	✔	✔	✔

(HNO3 to pH<2 4/13/23)

Relinquished By	Date/Time	Received By	Date/Time
Jennifer Carroll J. Sch	4-13-23 / 1449	Monyun Peter	4/13/23 1449 (+5.0 temp)

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

CBS 4-13-23

CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 23040094

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb Se Tl (ICPMS) As Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
J Culp & T Carroll

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID		Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	CL F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
23040094-012	AP-11			Groundwater	1	3								✔	✔	✔	✔	✔	✔
013	AP-12			Groundwater	1	3								✔	✔	✔	✔	✔	✔
014	AP-13			Groundwater	1	3								✔	✔	✔	✔	✔	✔
015	AP-14	2.40	4-13-23 1106	Groundwater	1	3								✔	✔	✔	✔	✔	✔
				Groundwater															
				Groundwater															
				Groundwater															
				Groundwater															
				Groundwater															
				Groundwater															
				Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
Jason Carroll 2.606	4-13-23 1449	Morgan Perin	4/13/23 1449

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 23040094

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 7.8 °C
Preserved in: [X] LAB [X] FIELD 4-18-23 FOR LAB USE ONLY LTG5
LAB NOTES: pH<2 8374. Added HNO3(8907) to 2L Amb.
CFT 4-18-23

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb Se Tl (ICPMS) As Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
JCalp & TCarroll

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID		Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
23040094-001	RW-3			Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	AP-1			Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	AP-2			Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	AP-3			Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	AP-4			Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	AP-5			Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	AP-6			Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	AP-7	10.46	4-17-23 1559	Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AP-8			Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AP-9	12.13	4-17-23 1521	Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	AP-10			Groundwater	1	2								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
Tracy Carroll	4/17/23 18:34	AMP	4/17/23 18:34

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

CFT 4-18-23

CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 23040094

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power

Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building

City/State/Zip: Springfield IL 62712

Contact: Eric Staley Phone: (217) 757-8610

Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No

Are these samples known to be hazardous? ☐ Yes ☑ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C

Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY

LAB NOTES:

Client Comments:

*elevations, pH, conductivity, temperature

**Sb Se Tl (ICPMS) As Ba Be B Cd Ca Cr Co Pb Li Hg Mo

Quarterly monitoring

PROJECT NAME/NUMBER

Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME

T Carroll JCalp

RESULTS REQUESTED

☑ Standard ☐ 1-2 Day (100% Surcharge)

☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
23040094-012	AP-11 14.20	4-17-23 1349	Groundwater	1	3								✔	✔	✔	✔	✔	✔
013	AP-12 14.96	4-17-23 1312	Groundwater	1	3								✔	✔	✔	✔	✔	✔
014	AP-13 13.91	4-17-23 1134	Groundwater	1	3								✔	✔	✔	✔	✔	✔
015	AP-14		Groundwater	1	3								✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
Tracy Carroll	4/17/23 1834		4/17/23 1834

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: CWLP Client:

Project Number: Task #: Start Date: Time:

Field Personnel: J. Cobb / T. Carroll Finish Date: 4-11-23 Time: 1224

WELL INFORMATION

Well ID: RW-3

Casing ID: inches

EVENT TYPE

Well Development Low-Flow / Low Stress Sampling Other

Well Volume Approach Sampling (Specify): Low Flow

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	1157		8.74								
	1212	0.65			14.1	7.13	737	2.24	12.81	-108.0	
	1215	0.78			14.1	7.11	740	2.12	9.92	-110.2	
	1218	0.91			14.1	7.09	743	2.00	8.42	-112.5	
	1221	1.04			14.2	7.08	745	1.89	4.80	-114.4	
	1224	1.17		14.90	14.2	7.06	749	1.78	4.49	-116.3	

NOTES (continued)

Bladder pump / Clear / No turbidity / Slight odor

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: CinLP Client:

Project Number: Task #: Start Date: Time:

Field Personnel: J. Cobb / T. Carroll Finish Date: 4-12-23 Time: 1249

WELL INFORMATION

Well ID: RTP-1

Casing ID: inches

EVENT TYPE

Well Development

Well Volume Approach Sampling

Low-Flow / Low Stress Sampling Other

(Specify): Low Flow

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	1225		9.92								
	1243	0.78			14.1	6.52	1898	0.99	13.43	-113.2	
	1246	0.91			14.0	6.52	1903	0.91	12.19	-115.5	
	1249	1.04		10.15	14.0	6.52	1908	0.86	12.95	-116.7	

NOTES (continued)

Bladder pump / Clear / no odor / no turbidity

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: CCP Client:

Project Number: Task #: Start Date: Time:

Field Personnel: J. Cobb / T. Carroll Finish Date: 4-12-23 Time: 1449

WELL INFORMATION

Well ID: AP-2

Casing ID: inches

EVENT TYPE

Well Development Low-Flow / Low Stress Sampling Other

Well Volume Approach Sampling (Specify): Low Flow

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	1401		7.24								
	1437	1.56			13.1	6.45	1450	0.70	11.34	-2.1	
	1440	1.69			13.1	6.45	1453	0.69	11.01	-2.4	
	1443	1.82			13.0	6.45	1460	0.67	10.17	-2.7	
	1446	1.82			13.1	6.45	1465	0.66	8.94	-2.9	
	1449	1.95		7.38	13.1	6.44	1469	0.64	9.24	-3.2	

NOTES (continued)

Bladder Pump / Slight turbidity / Strong odor / Clear

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: CwLP Client:

Project Number: Task #: Start Date: Time:

Field Personnel: J.Gelb/T. Carroll Finish Date: 4-12-23 Time: 1526

WELL INFORMATION

Well ID: AP3

Casing ID: inches

EVENT TYPE

Well Development

Well Volume Approach Sampling

Low-Flow / Low Stress Sampling Other

(Specify): Low Flow

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	1505		9.63								
	1520	0.65			13.1	6.64	1302	1.09	7.99	-78.7	
	1523	0.78			13.0	6.64	1303	0.99	6.92	-79.7	
	1526	0.91		9.70	13.1	6.64	1300	0.91	6.21	-80.6	

NOTES (continued)

Bladder Pump / Clear / no odor / no turbidity

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: CWCP Client:

Project Number: Task #: Start Date: Time:

Field Personnel: J. Galp / B. Gillihan Finish Date: 4-13-23 Time: 1013

WELL INFORMATION

Well ID: ~~MW-4~~ & MW-4

Casing ID: inches

EVENT TYPE

Well Development

Well Volume Approach Sampling

Low-Flow / Low Stress Sampling Other

(Specify): Low Flow

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	0958		9.52								
	1004	.26			15.8	6.74	965	2.90	9.02	-66.0	
	1007	.39			15.8	6.78	969	2.12	8.17	-98.1	
	1010	.52			15.8	6.80	970	1.72	10.08	-114.9	
	1013	.65		9.6	15.8	6.82	969	1.38	10.35	-125.7	

NOTES (continued)

Bladder pump / Clear / Slight odor / no turbidity

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: CWLP Client:

Project Number: Task #: Start Date: Time:

Field Personnel: J. Cap / B. Gillighan Finish Date: 4-13-23 Time: 1127

WELL INFORMATION

Well ID: AP-5

Casing ID: inches

EVENT TYPE

Well Development Low-Flow / Low Stress Sampling Other

Well Volume Approach Sampling (Specify): Low Flow

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	1118		13.05								
	1121	.13			12.6	7.15	698	5.38	3.56	28.2	
	1124	.26			12.5	7.10	698	4.18	4.23	32.3	
	1127	.39		14.95	12.6	7.08	698	3.80	5.33	36.4	

NOTES (continued)

Bladder pump / Clear / no turbidity / no ~~odor~~ odor

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: CWCP Client:

Project Number: Task #: Start Date: Time:

Field Personnel: J. Gold / T. Carroll Finish Date: 4-12-23 Time: 1103

WELL INFORMATION

Well ID: AP-6

Casing ID: inches

EVENT TYPE

Well Development

Well Volume Approach Sampling

Low-Flow / Low Stress Sampling Other

(Specify): Low Flow

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	1045		7.43								
	1057	0.52			12.9	7.06	636	5.32	14.46	75.5	
	1100	0.65			13.0	7.04	638	5.13	3.70	66.6	
	1103	0.78		17.1	12.9	7.02	642	5.05	3.48	56.6	

NOTES (continued)

Bladder pump

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: CWLP
Client:
Project Number:
Task #:
Start Date:
Time:
Field Personnel: J-Cap / T. Carroll
Finish Date: 4-17-23
Time: 1559

WELL INFORMATION

Well ID: AP-7
Casing ID: inches

EVENT TYPE

☐ Well Development
☐ Well Volume Approach Sampling
☐ Low-Flow / Low Stress Sampling
☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	1532		10.46								
	1547	0.65			12.5	7.10	675	3.4	19.88	-96.9	
	1550	0.78			12.5	7.09	681	3.1	26.30	-99.1	
	1553	0.91			12.5	7.08	689	2.8	30.59	-102.2	
	1556	1.04			12.6	7.09	698	2.7	25.70	-104.0	
	1559	1.17		19.15	12.6	7.11	712	2.6	27.53	-104.4	

NOTES (continued)

Bladder Pump / odor moderate / clear / slight turbidity /

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: CWLP Client:

Project Number: Task #: Start Date: Time:

Field Personnel: J. Cap / T. Carroll Finish Date: 4-12-23 Time: 1212

WELL INFORMATION

Well ID: AO-8

Casing ID: inches

EVENT TYPE

Well Development

Well Volume Approach Sampling

Low-Flow / Low Stress Sampling Other

(Specify): Low Flow

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	1127		4.35								
	1154	1.17			13.6	6.80	971	0.76	22.90	-159.8	
	1157	1.30			13.6	6.80	970	0.73	22.41	-160.5	
	1200	1.43			13.6	6.79	969	0.70	17.84	-160.7	
	1203	1.56			13.8	6.79	970	0.66	14.62	-160.3	
	1206	1.69			13.8	6.78	970	0.67	13.26	-160.2	
	1209	1.82			13.9	6.78	971	0.66	12.88	-160.1	
	1212	1.95		4.52	13.9	6.77	970	0.65	12.83	-159.6	

NOTES (continued)

Submersible pump / Clear / Slight turbidity / no odor

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: CWLP Client: Vistra

Project Number: Task #: Start Date: Time:

Field Personnel: J. Gp / T. Carroll Finish Date: 4-12-23 Time: 1350

WELL INFORMATION

Well ID: AP-10

Casing ID: inches

EVENT TYPE

Well Development Low-Flow / Low Stress Sampling Other

Well Volume Approach Sampling (Specify): Low Flow

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	1305		3.05								
	1332	1.17			13.8	6.69	1249	0.69	17.21	-134.4	
	1335	1.30			13.8	6.69	1248	0.67	11.01	-134.9	
	1338	1.43			13.8	6.68	1250	0.65	8.45	-135.5	
	1341	1.56			13.8	6.68	1250	0.63	10.82	-136.1	
	1344	1.69			13.8	6.68	1250	0.61	6.50	-136.7	
	1347	1.82			13.8	6.68	1249	0.60	5.80	-137.2	
	1350	1.95		3.23	13.8	6.68	1250	0.59	5.71	-137.8	

NOTES (continued)

Submersible Pump / Moderate turbidity / Yellowish / Slight odor

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: CWLP Client:

Project Number: Task #: Start Date: Time:

Field Personnel: J.Cobb / B. Gilliam Finish Date: 4-13-23 Time: 1106

WELL INFORMATION

Well ID: AP-14

Casing ID: inches

EVENT TYPE

Well Development

Well Volume Approach Sampling

Low-Flow / Low Stress Sampling Other

(Specify):Low Flow

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	1036		2.40								
	1057	.91			12.9	6.97	1724	1.20	10.90	-53.4	
	~~1100~~ 1100	1.04			13.0	6.97	1724	1.08	12.25	-54.1	
	1103	1.17			13.0	6.97	1723	0.97	11.40	-55.1	
	1106	1.30		2.80	12.9	6.97	1724	0.92	12.46	-56.0	

NOTES (continued)

Submersible Pump / Clear / no turbidity / no odor

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

May 23, 2023

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 23040094

Dear Shelly Hennessy:

Order No.: 23041812

Summit Environmental Technologies, Inc. received 15 sample(s) on 4/26/2023 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Case Narrative

WO#: **23041812**
Date: **5/23/2023**

CLIENT: TEKLAB Inc,
Project: 23040094

WorkOrder Narrative:
23041812: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, In
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-44
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **23041812**
Date: **5/23/2023**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Website: http://www.settek.com

Workorder Sample Summary

WO#: **23041812**

23-May-23

CLIENT: TEKLAB Inc,
Project: 23040094

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23041812-001	23040094-001		4/11/2023 12:24:00 PM	4/26/2023 1:10:00 PM	Non-Potable Water
23041812-002	23040094-002		4/12/2023 12:49:00 PM	4/26/2023 1:10:00 PM	Non-Potable Water
23041812-003	23040094-003		4/12/2023 2:49:00 PM	4/26/2023 1:10:00 PM	Non-Potable Water
23041812-004	23040094-004		4/12/2023 3:26:00 PM	4/26/2023 1:10:00 PM	Non-Potable Water
23041812-005	23040094-005		4/13/2023 10:13:00 AM	4/26/2023 1:10:00 PM	Non-Potable Water
23041812-006	23040094-006		4/13/2023 11:27:00 AM	4/26/2023 1:10:00 PM	Non-Potable Water
23041812-007	23040094-007		4/12/2023 11:03:00 AM	4/26/2023 1:10:00 PM	Non-Potable Water
23041812-008	23040094-008		4/17/2023 3:59:00 PM	4/26/2023 1:10:00 PM	Non-Potable Water
23041812-009	23040094-009		4/12/2023 12:12:00 PM	4/26/2023 1:10:00 PM	Non-Potable Water
23041812-010	23040094-010		4/17/2023 3:21:00 PM	4/26/2023 1:10:00 PM	Non-Potable Water
23041812-011	23040094-011		4/12/2023 1:50:00 PM	4/26/2023 1:10:00 PM	Non-Potable Water
23041812-012	23040094-012		4/17/2023 1:49:00 PM	4/26/2023 1:10:00 PM	Non-Potable Water
23041812-013	23040094-013		4/17/2023 1:12:00 PM	4/26/2023 1:10:00 PM	Non-Potable Water
23041812-014	23040094-014		4/17/2023 11:34:00 AM	4/26/2023 1:10:00 PM	Non-Potable Water
23041812-015	23040094-015		4/13/2023 11:06:00 AM	4/26/2023 1:10:00 PM	Non-Potable Water

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DATES REPORT

WO#: **23041812**

23-May-23

Client: TEKLAB Inc,

Project: 23040094

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23041812-001A	23040094-001	4/11/2023 12:24:00 PM	Non-Potable Water	Radium-226 (EPA 903.0)		4/28/2023 9:55:00 AM	5/9/2023 12:05:00 PM
				Radium-228 (EPA 904.0)		4/28/2023 9:55:00 AM	5/8/2023 2:58:00 PM
				Radium-228 (EPA 904.0)		5/11/2023 9:48:00 AM	5/16/2023 3:00:00 PM
23041812-002A	23040094-002	4/12/2023 12:49:00 PM		Radium-226 (EPA 903.0)		4/28/2023 9:55:00 AM	5/9/2023 12:05:00 PM
				Radium-228 (EPA 904.0)		4/28/2023 9:55:00 AM	5/8/2023 2:58:00 PM
23041812-003A	23040094-003	4/12/2023 2:49:00 PM		Radium-226 (EPA 903.0)		5/1/2023 12:25:00 PM	5/10/2023 9:46:00 AM
				Radium-228 (EPA 904.0)		5/1/2023 12:25:00 PM	5/9/2023 3:21:00 PM
23041812-004A	23040094-004	4/12/2023 3:26:00 PM		Radium-226 (EPA 903.0)		5/1/2023 12:25:00 PM	5/10/2023 9:46:00 AM
				Radium-228 (EPA 904.0)		5/1/2023 12:25:00 PM	5/9/2023 3:21:00 PM
23041812-005A	23040094-005	4/13/2023 10:13:00 AM		Radium-226 (EPA 903.0)		5/1/2023 12:25:00 PM	5/10/2023 9:46:00 AM
				Radium-228 (EPA 904.0)		5/1/2023 12:25:00 PM	5/9/2023 3:21:00 PM
23041812-006A	23040094-006	4/13/2023 11:27:00 AM		Radium-226 (EPA 903.0)		5/1/2023 12:25:00 PM	5/10/2023 9:46:00 AM
				Radium-228 (EPA 904.0)		5/1/2023 12:25:00 PM	5/9/2023 3:21:00 PM
23041812-007A	23040094-007	4/12/2023 11:03:00 AM		Radium-226 (EPA 903.0)		5/1/2023 12:25:00 PM	5/10/2023 9:46:00 AM
				Radium-228 (EPA 904.0)		5/1/2023 12:25:00 PM	5/9/2023 3:21:00 PM
23041812-008A	23040094-008	4/17/2023 3:59:00 PM		Radium-226 (EPA 903.0)		5/1/2023 12:25:00 PM	5/10/2023 9:46:00 AM
				Radium-228 (EPA 904.0)		5/1/2023 12:25:00 PM	5/9/2023 3:21:00 PM
23041812-009A	23040094-009	4/12/2023 12:12:00 PM		Radium-226 (EPA 903.0)		5/1/2023 12:25:00 PM	5/10/2023 9:46:00 AM
				Radium-228 (EPA 904.0)		5/1/2023 12:25:00 PM	5/9/2023 3:21:00 PM
23041812-010A	23040094-010	4/17/2023 3:21:00 PM		Radium-226 (EPA 903.0)		5/1/2023 12:25:00 PM	5/10/2023 9:46:00 AM
				Radium-228 (EPA 904.0)		5/1/2023 12:25:00 PM	5/9/2023 3:21:00 PM
23041812-011A	23040094-011	4/12/2023 1:50:00 PM		Radium-226 (EPA 903.0)		5/1/2023 12:25:00 PM	5/10/2023 9:46:00 AM
				Radium-228 (EPA 904.0)		5/1/2023 12:25:00 PM	5/9/2023 3:21:00 PM

Original

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DATES REPORT

WO#: **23041812**

23-May-23

Client: TEKLAB Inc,

Project: 23040094

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23041812-012A	23040094-012	4/17/2023 1:49:00 PM	Non-Potable Water	Radium-226 (EPA 903.0)		5/1/2023 12:25:00 PM	5/10/2023 9:46:00 AM
				Radium-228 (EPA 904.0)		5/1/2023 12:25:00 PM	5/9/2023 3:21:00 PM
23041812-013A	23040094-013	4/17/2023 1:12:00 PM		Radium-226 (EPA 903.0)		5/1/2023 12:25:00 PM	5/10/2023 9:46:00 AM
				Radium-228 (EPA 904.0)		5/1/2023 12:25:00 PM	5/9/2023 3:21:00 PM
23041812-014A	23040094-014	4/17/2023 11:34:00 AM		Radium-226 (EPA 903.0)		5/1/2023 12:25:00 PM	5/10/2023 9:46:00 AM
				Radium-228 (EPA 904.0)		5/1/2023 12:25:00 PM	5/9/2023 3:21:00 PM
23041812-015A	23040094-015	4/13/2023 11:06:00 AM		Radium-226 (EPA 903.0)		5/1/2023 12:25:00 PM	5/10/2023 9:46:00 AM
				Radium-228 (EPA 904.0)		5/1/2023 12:25:00 PM	5/9/2023 3:21:00 PM

Original

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Analytical Report

(consolidated)

WO#: **23041812**

Date Reported: **5/23/2023**

CLIENT: TEKLAB Inc,
Project: 23040094
Lab ID: 23041812-001
Client Sample ID: 23040094-001

Collection Date: 4/11/2023 12:24:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	0.19	1.00	U	pCi/L	± 0.1	1	5/9/2023 12:05:00 PM
Yield	0.96					1	5/9/2023 12:05:00 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	0.29	1.00	U	pCi/L	± 0.43	1	5/16/2023 3:00:00 PM
Yield	0.9					1	5/16/2023 3:00:00 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **23041812**

Date Reported: **5/23/2023**

CLIENT: TEKLAB Inc,
Project: 23040094
Lab ID: 23041812-002
Client Sample ID: 23040094-002

Collection Date: 4/12/2023 12:49:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	0.29	1.00	U	pCi/L	± 0.14	1	5/9/2023 12:05:00 PM
Yield	0.98					1	5/9/2023 12:05:00 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	1.11	1.00		pCi/L	± 0.54	1	5/8/2023 2:58:00 PM
Yield	1					1	5/8/2023 2:58:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **23041812**

Date Reported: **5/23/2023**

CLIENT: TEKLAB Inc,
Project: 23040094
Lab ID: 23041812-003
Client Sample ID: 23040094-003

Collection Date: 4/12/2023 2:49:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	0.29	1.00	U	pCi/L	± 0.16	1	5/10/2023 9:46:00 AM
Yield	0.94					1	5/10/2023 9:46:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	2.21	1.00		pCi/L	± 0.92	1	5/9/2023 3:21:00 PM
Yield	0.94					1	5/9/2023 3:21:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **23041812**

Date Reported: **5/23/2023**

CLIENT: TEKLAB Inc,

Collection Date: 4/12/2023 3:26:00 PM

Project: 23040094

Lab ID: 23041812-004

Matrix: NON-POTABLE WATER

Client Sample ID: 23040094-004

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	-0.03	1.00	U	pCi/L	± 0.17	1	5/10/2023 9:46:00 AM
Yield	0.9					1	5/10/2023 9:46:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	0.39	1.00	U	pCi/L	± 0.72	1	5/9/2023 3:21:00 PM
Yield	0.96					1	5/9/2023 3:21:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **23041812**

Date Reported: **5/23/2023**

CLIENT: TEKLAB Inc,
Project: 23040094
Lab ID: 23041812-005
Client Sample ID: 23040094-005

Collection Date: 4/13/2023 10:13:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	0.57	1.00	U	pCi/L	± 0.2	1	5/10/2023 9:46:00 AM
Yield	0.98					1	5/10/2023 9:46:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	2.32	1.00		pCi/L	± 0.96	1	5/9/2023 3:21:00 PM
Yield	0.98					1	5/9/2023 3:21:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **23041812**

Date Reported: **5/23/2023**

CLIENT: TEKLAB Inc,
Project: 23040094
Lab ID: 23041812-006
Client Sample ID: 23040094-006

Collection Date: 4/13/2023 11:27:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	0.07	1.00	U	pCi/L	± 0.15	1	5/10/2023 9:46:00 AM
Yield	0.98					1	5/10/2023 9:46:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	0.5	1.00	U	pCi/L	± 0.67	1	5/9/2023 3:21:00 PM
Yield	0.99					1	5/9/2023 3:21:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **23041812**

Date Reported: **5/23/2023**

CLIENT: TEKLAB Inc,
Project: 23040094
Lab ID: 23041812-007
Client Sample ID: 23040094-007

Collection Date: 4/12/2023 11:03:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	0.12	1.00	U	pCi/L	± 0.14	1	5/10/2023 9:46:00 AM
Yield	0.98					1	5/10/2023 9:46:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	1.17	1.00		pCi/L	± 0.88	1	5/9/2023 3:21:00 PM
Yield	1					1	5/9/2023 3:21:00 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **23041812**

Date Reported: **5/23/2023**

CLIENT: TEKLAB Inc,
Project: 23040094
Lab ID: 23041812-008
Client Sample ID: 23040094-008

Collection Date: 4/17/2023 3:59:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	0.37	1.00	U	pCi/L	± 0.17	1	5/10/2023 9:46:00 AM
Yield	0.94					1	5/10/2023 9:46:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	1.17	1.00		pCi/L	± 0.89	1	5/9/2023 3:21:00 PM
Yield	0.94					1	5/9/2023 3:21:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **23041812**

Date Reported: **5/23/2023**

CLIENT: TEKLAB Inc,
Project: 23040094
Lab ID: 23041812-009
Client Sample ID: 23040094-009

Collection Date: 4/12/2023 12:12:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	1.22	1.00		pCi/L	± 0.28	1	5/10/2023 9:46:00 AM
Yield	1					1	5/10/2023 9:46:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	1.66	1.00		pCi/L	± 0.94	1	5/9/2023 3:21:00 PM
Yield	1					1	5/9/2023 3:21:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **23041812**

Date Reported: **5/23/2023**

CLIENT: TEKLAB Inc,
Project: 23040094
Lab ID: 23041812-011
Client Sample ID: 23040094-011

Collection Date: 4/12/2023 1:50:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	1.29	1.00		pCi/L	± 0.29	1	5/10/2023 9:46:00 AM
Yield	0.99					1	5/10/2023 9:46:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	1.37	1.00		pCi/L	± 0.94	1	5/9/2023 3:21:00 PM
Yield	0.92					1	5/9/2023 3:21:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

Summit Environmental Technologies, Inc.
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TEL: (330) 253-8211 FAX: (330) 253-4489
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Analytical Report

(consolidated)

WO#: **23041812**

Date Reported: **5/23/2023**

CLIENT: TEKLAB Inc,

Collection Date: 4/13/2023 11:06:00 AM

Project: 23040094

Lab ID: 23041812-015

Matrix: NON-POTABLE WATER

Client Sample ID: 23040094-015

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	-0.24	1.00	U	pCi/L	± 0.23	1	5/10/2023 9:46:00 AM
Yield	1					1	5/10/2023 9:46:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	0.69	1.00	J	pCi/L	± 0.86	1	5/9/2023 3:21:00 PM
Yield	0.98					1	5/9/2023 3:21:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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QC SUMMARY REPORT

WO#: **23041812**

23-May-23

Client: TEKLAB Inc,
Project: 23040094 **BatchID:** **64709**

Sample ID: **MB-64709**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **4/28/2023**	RunNo: **163427**
Client ID: **PBW**	Batch ID: **64709**	TestNo: **E904.0**	**E903-904**	Analysis Date: **5/8/2023**	SeqNo: **4346663**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	0.640	1.00		0	0						J
Yield	0.980			0	0						

Sample ID: **LCS-64709**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **4/28/2023**	RunNo: **163427**
Client ID: **LCSW**	Batch ID: **64709**	TestNo: **E904.0**	**E903-904**	Analysis Date: **5/8/2023**	SeqNo: **4346664**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.43	1.00	5.000	0	88.6	70	130				
Yield	1.00			0	0						

Sample ID: **RLCD-64709**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **4/28/2023**	RunNo: **163427**
Client ID: **BatchQC**	Batch ID: **64709**	TestNo: **E904.0**	**E903-904**	Analysis Date: **5/8/2023**	SeqNo: **4346668**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	0.970	1.00	1.000	0	97.0	50	150				J
Yield	1.00			0	0						

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **23041812**

23-May-23

Client: TEKLAB Inc,
Project: 23040094 **BatchID:** **64709**

Sample ID: **23041659-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **4/28/2023** RunNo: **163427**
Client ID: **BatchQC** Batch ID: **64709** TestNo: **E904.0** **E903-904** Analysis Date: **5/8/2023** SeqNo: **4346672**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	U
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **23041812**

23-May-23

Client: TEKLAB Inc,
Project: 23040094 **BatchID:** **64709**

Sample ID: **MB-64709**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **4/28/2023**	RunNo: **163434**
Client ID: **PBW**	Batch ID: **64709**	TestNo: **E903.0**	**E903-904**	Analysis Date: **5/9/2023**	SeqNo: **4346930**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									U
Yield	1.00										

Sample ID: **LCS-64709**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **4/28/2023**	RunNo: **163434**
Client ID: **LCSW**	Batch ID: **64709**	TestNo: **E903.0**	**E903-904**	Analysis Date: **5/9/2023**	SeqNo: **4346931**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.16	1.00	5.000	0	103	70	130				

Sample ID: **LCSD-64709**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **4/28/2023**	RunNo: **163434**
Client ID: **LCSS02**	Batch ID: **64709**	TestNo: **E903.0**	**E903-904**	Analysis Date: **5/9/2023**	SeqNo: **4346932**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.38	1.00	5.000	0	108	70	130	5.160	4.17	20	

Sample ID: **RLC-64709**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **4/28/2023**	RunNo: **163434**
Client ID: **BatchQC**	Batch ID: **64709**	TestNo: **E903.0**	**E903-904**	Analysis Date: **5/9/2023**	SeqNo: **4346934**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **23041812**

23-May-23

Client: TEKLAB Inc,
Project: 23040094 **BatchID:** **64709**

Sample ID: **RLC-64709** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **4/28/2023** RunNo: **163434**
Client ID: **BatchQC** Batch ID: **64709** TestNo: **E903.0** **E903-904** Analysis Date: **5/9/2023** SeqNo: **4346934**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.21	1.00	1.000	0	121	50	150				

Sample ID: **RLCD-64709** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **4/28/2023** RunNo: **163434**
Client ID: **BatchQC** Batch ID: **64709** TestNo: **E903.0** **E903-904** Analysis Date: **5/9/2023** SeqNo: **4346935**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.09	1.00	1.000	0	109	50	150				

Sample ID: **23041658-001AMS** SampType: **MS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **4/28/2023** RunNo: **163434**
Client ID: **BatchQC** Batch ID: **64709** TestNo: **E903.0** **E903-904** Analysis Date: **5/9/2023** SeqNo: **4346936**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.09	1.00	5.000	0	102	70	130				

Sample ID: **23041659-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **4/28/2023** RunNo: **163434**
Client ID: **BatchQC** Batch ID: **64709** TestNo: **E903.0** **E903-904** Analysis Date: **5/9/2023** SeqNo: **4346939**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	U

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **23041812**

23-May-23

Client: TEKLAB Inc,
Project: 23040094 **BatchID:** **64709**

Sample ID: **23041659-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **4/28/2023** RunNo: **163434**
Client ID: **BatchQC** Batch ID: **64709** TestNo: **E903.0** **E903-904** Analysis Date: **5/9/2023** SeqNo: **4346939**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Yield	0.970							0.9600	1.04	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **23041812**

23-May-23

Client: TEKLAB Inc,
Project: 23040094 **BatchID:** **64851**

Sample ID: **MB-64851**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **5/1/2023**	RunNo: **163841**
Client ID: **PBW**	Batch ID: **64851**	TestNo: **E904.0**	**E903-904**	Analysis Date: **5/9/2023**	SeqNo: **4362722**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	0.930	1.00		0	0						J
Yield	0.880			0	0						

Sample ID: **LCS-64851**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **5/1/2023**	RunNo: **163841**
Client ID: **LCSW**	Batch ID: **64851**	TestNo: **E904.0**	**E903-904**	Analysis Date: **5/9/2023**	SeqNo: **4362723**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.60	1.00	5.000	0	72.0	70	130				
Yield	0.880			0	0						

Sample ID: **RLC-64851**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **5/1/2023**	RunNo: **163841**
Client ID: **BatchQC**	Batch ID: **64851**	TestNo: **E904.0**	**E903-904**	Analysis Date: **5/9/2023**	SeqNo: **4362726**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	2.69	1.00	1.000	0	269	50	150				S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **23041812**

23-May-23

Client: TEKLAB Inc,
Project: 23040094 **BatchID:** **64851**

Sample ID: **RLCD-64851** SampType: **RLC** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/1/2023** RunNo: **163841**
Client ID: **BatchQC** Batch ID: **64851** TestNo: **E904.0** **E903-904** Analysis Date: **5/9/2023** SeqNo: **4362727**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.99	1.00	1.000	0	199	50	150				S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **23041812**

23-May-23

Client: TEKLAB Inc,
Project: 23040094 **BatchID:** **64851**

Sample ID: **23041819-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/1/2023** RunNo: **163841**
Client ID: **BatchQC** Batch ID: **64851** TestNo: **E904.0** **E903-904** Analysis Date: **5/9/2023** SeqNo: **4362731**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	U
Yield	0.930			0	0			0.9800	5.24		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **23041812**

23-May-23

Client: TEKLAB Inc,
Project: 23040094 **BatchID:** **64851**

Sample ID: **MB-64851**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/1/2023**	RunNo: **163869**
Client ID: **PBW**	Batch ID: **64851**	TestNo: **E903.0**	**E903-904**	Analysis Date: **5/10/2023**	SeqNo: **4363196**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									U
Yield	0.880										

Sample ID: **LCS-64851**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/1/2023**	RunNo: **163869**
Client ID: **LCSW**	Batch ID: **64851**	TestNo: **E903.0**	**E903-904**	Analysis Date: **5/10/2023**	SeqNo: **4363197**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.48	1.00	5.000	0	110	70	130				

Sample ID: **LCSD-64851**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/1/2023**	RunNo: **163869**
Client ID: **LCSS02**	Batch ID: **64851**	TestNo: **E903.0**	**E903-904**	Analysis Date: **5/10/2023**	SeqNo: **4363198**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.17	1.00	5.000	0	103	70	130	5.480	5.82	20	

Sample ID: **RLCD-64851**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/1/2023**	RunNo: **163869**
Client ID: **BatchQC**	Batch ID: **64851**	TestNo: **E903.0**	**E903-904**	Analysis Date: **5/10/2023**	SeqNo: **4363201**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **23041812**

23-May-23

Client: TEKLAB Inc,
Project: 23040094 **BatchID:** **64851**

Sample ID: **RLCD-64851**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/1/2023**	RunNo: **163869**
Client ID: **BatchQC**	Batch ID: **64851**	TestNo: **E903.0**	**E903-904**	Analysis Date: **5/10/2023**	SeqNo: **4363201**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.34	1.00	1.000	0	134	50	150				

Sample ID: **23041815-001AMS**	SampType: **MS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/1/2023**	RunNo: **163869**
Client ID: **BatchQC**	Batch ID: **64851**	TestNo: **E903.0**	**E903-904**	Analysis Date: **5/10/2023**	SeqNo: **4363202**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.61	1.00	5.000	0.9600	93.0	70	130				

Sample ID: **23041819-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/1/2023**	RunNo: **163869**
Client ID: **BatchQC**	Batch ID: **64851**	TestNo: **E903.0**	**E903-904**	Analysis Date: **5/10/2023**	SeqNo: **4363205**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	U
Yield	0.940							0.9600	2.11	0	

Sample ID: **23041990-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/1/2023**	RunNo: **163869**
Client ID: **BatchQC**	Batch ID: **64851**	TestNo: **E903.0**	**E903-904**	Analysis Date: **5/10/2023**	SeqNo: **4363207**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **23041812**

23-May-23

Client: TEKLAB Inc,
Project: 23040094 **BatchID:** **64851**

Sample ID: **23041990-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/1/2023** RunNo: **163869**
Client ID: **BatchQC** Batch ID: **64851** TestNo: **E903.0** **E903-904** Analysis Date: **5/10/2023** SeqNo: **4363207**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	0.760	1.00						0	200	20	JR
Yield	0.990							0.9700	2.04	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **23041812**

23-May-23

Client: TEKLAB Inc,
Project: 23040094 **BatchID:** **65044**

Sample ID: **MB-65044**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **5/11/2023**	RunNo: **163963**
Client ID: **PBW**	Batch ID: **65044**	TestNo: **E904.0**	**E903-904**	Analysis Date: **5/16/2023**	SeqNo: **4366735**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	0.660	1.00		0	0						J
Yield	0.890			0	0						

Sample ID: **LCS-65044**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **5/11/2023**	RunNo: **163963**
Client ID: **LCSW**	Batch ID: **65044**	TestNo: **E904.0**	**E903-904**	Analysis Date: **5/16/2023**	SeqNo: **4366736**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	2.81	1.00	5.000	0	56.2	70	130				
Yield	0.910			0	0						

Sample ID: **LCSD-65044**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **5/11/2023**	RunNo: **163963**
Client ID: **LCSS02**	Batch ID: **65044**	TestNo: **E904.0**	**E903-904**	Analysis Date: **5/16/2023**	SeqNo: **4366737**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.74	1.00	5.000	0	74.8	70	130	2.810	28.4	20	
Yield	0.960			0	0			0.9100	5.35		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **23041812**

23-May-23

Client: TEKLAB Inc,
Project: 23040094 **BatchID:** **65044**

Sample ID: **RLCD-65044** SampType: **RLC** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/11/2023** RunNo: **163963**
Client ID: **BatchQC** Batch ID: **65044** TestNo: **E904.0** **E903-904** Analysis Date: **5/16/2023** SeqNo: **4366740**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.23	1.00	1.000	0	123	50	150				
Yield	0.960			0	0						

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-~~1005~~

23041812

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: Tracy Carroll/TEKLAB | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 on your standard turn around time.
Samples collected from an IL site.
Batch QC is required for all analyses requested. EDD requested..

Project# 23040094

Contact: Shelly Hennessey | Email: shennessey@teklabinc.com
Requested Due Date: Standard TAT | Billing/PO: 34257 | Phone: (618) 344-1004

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Any changes to analysis/methods must be approved by Teklab, Inc.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228												
	23040094-001	4/11/23 1224	HNO3	Groundwater	☑	PH	1	CPM	23								
	23040094-002	4/12/23 1249	HNO3	Groundwater	☑		1		29								
	23040094-003	4/12/23 1449	HNO3	Groundwater	☑		1		31								
	23040094-004	4/12/23 1526	HNO3	Groundwater	☑		1		36								
	23040094-005	4/13/23 1013	HNO3	Groundwater	☑		1		24								
	23040094-006	4/13/23 1127	HNO3	Groundwater	☑		1		35								
	23040094-007	4/12/23 1103	HNO3	Groundwater	☑		1		21								
	23040094-008	4/17/23 1559	HNO3	Groundwater	☑		1		27								
	23040094-009	4/12/23 1212	HNO3	Groundwater	☑		1		32								
	23040094-010	4/17/23 1521	HNO3	Groundwater	☑		1		39								
	23040094-011	4/12/23 1350	HNO3	Groundwater	☑	☑	1	☑	41								

*Relinquished By	Date/Time	Received By	Date/Time
RMP	4/18/23		04/26/23 1310

13.1+0.1=13.2, Fed-ex cooler

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA
3/2/2016

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: Tracy Carroll/TEKLAB | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 on your standard turn around time.
Samples collected from an IL site.
Batch QC is required for all analyses requested. EDD requested..

Project# 23040094

Contact: Shelly Hennessey | Email: shennessey@teklabinc.com
Requested Due Date: Standard TAT | Billing/PO: 34257 | Phone: (618) 344-1004

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Any changes to analysis/methods must be approved by Teklab, Inc.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228												
	23040094-012	4/17/23 1349	HNO3	Groundwater	☑	PH	1	CRM	16	☐	☐	☐	☐	☐	☐	☐	☐
	23040094-013	4/17/23 1312	HNO3	Groundwater	☑	1	1	1	20	☐	☐	☐	☐	☐	☐	☐	☐
	23040094-014	4/17/23 1134	HNO3	Groundwater	☑	1	1	1	19	☐	☐	☐	☐	☐	☐	☐	☐
	23040094-015	4/13/23 1106	HNO3	Groundwater	☑	V	1	V	28	☐	☐	☐	☐	☐	☐	☐	☐
			HNO3	Groundwater	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			HNO3	Groundwater	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			HNO3	Groundwater	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			HNO3	Groundwater	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			HNO3	Groundwater	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			HNO3	Groundwater	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			HNO3	Groundwater	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

*Relinquished By	Date/Time	Received By	Date/Time
JMP	4/18/23		

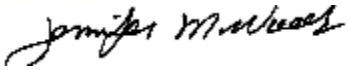
Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights. Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA
3/2/2016

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **23041812** RcptNo: **1**

Logged by:	**Anthony W. Britton**	**4/26/2023 1:10:00 PM**	
Completed By:	**Anthony W. Britton**	**4/26/2023 4:55:12 PM**	
Reviewed By:	**Jennifer Woolf**	**4/26/2023 6:42:30 PM**	

Chain of Custody

1.	Were seals intact?	Yes ☑	No ☐	Not Present ☐
2.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3.	How was the sample delivered?	FedEx		

Log In

4.	Coolers are present?	Yes ☐	No ☑	NA ☐
5.	Was an attempt made to cool the samples?	Yes ☐	No ☑	NA ☐
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☑	NA ☐
		Not required		
7.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
8.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
9.	Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
10.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
11.	Is the headspace in the VOA vials less than 1/4 inch or 6 mm?	Yes ☐	No ☐	No VOA Vials ☑
12.	Were any sample containers received broken?	Yes ☐	No ☑	
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
14.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
15.	Is it clear what analyses were requested?	Yes ☑	No ☐	
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	13.2	Good	Not Present			

July 2023 Laboratory Analytical Report

August 16, 2023

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 23070002

Dear Eric Staley:

TEKLAB, INC received 15 samples on 7/7/2023 4:44:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 23070002
Report Date: 16-Aug-23

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	25
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 23070002

Client Project: Ash Pond Monitoring Wells **Report Date:** 16-Aug-23

Abbr Definition

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power
Work Order: 23070002

Client Project: Ash Pond Monitoring Wells
Report Date: 16-Aug-23

Qualifiers

- Unknown hydrocarbon
B - Analyte detected in associated Method Blank
C - RL shown is a Client Requested Quantitation Limit
E - Value above quantitation range
H - Holding times exceeded
I - Associated internal standard was outside method criteria
J - Analyte detected below quantitation limits
M - Manual Integration used to determine area response
ND - Not Detected at the Reporting Limit
R - RPD outside accepted recovery limits
S - Spike Recovery outside recovery limits
T - TIC(Tentatively identified compound)
X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 23070002
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Aug-23

Cooler Receipt Temp: 5.2 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 & Radium-228 analysis was performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 23070002
Report Date: 16-Aug-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2023	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: City Water, Light & Power
Work Order: 23070002
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Aug-23
Lab ID: 23070002-001
Client Sample ID: RW-3
Matrix: GROUNDWATER
Collection Date: 07/06/2023 12:23

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	07/06/2023 12:23	R332756
Depth to water	*	-5.00		**8.29**	ft	1	07/06/2023 12:23	R332756
Depth to water from measuring point	*	0		**10.99**	ft	1	07/06/2023 12:23	R332756
Elevation of groundwater surface	*	0		**528.51**	ft	1	07/06/2023 12:23	R332756
Measuring Point Elevation	*	0		**539.50**	ft	1	07/06/2023 12:23	R332756
Measuring Point Height Above Land Surface	*	0		**2.70**	ft	1	07/06/2023 12:23	R332756
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.3**	NTU	1	07/06/2023 12:23	R332756
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.5**	°F	1	07/06/2023 12:23	R332756
SW-846 9040B								
pH, Field	*	1.00		**7.13**		1	07/06/2023 12:23	R332756
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**437**	µmhos/cm @25C	1	07/06/2023 12:23	R332756
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**290**	mg/L	2.5	07/07/2023 15:00	R331380
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**22**	mg/L	1	07/24/2023 14:05	R333047
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.27**	mg/L	1	07/11/2023 12:53	R331398
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**28**	mg/L	1	07/24/2023 14:06	R333070
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.106**	mg/L	1	07/11/2023 18:26	208261
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	07/11/2023 18:26	208261
Boron	NELAP	0.0200		**0.0595**	mg/L	1	07/12/2023 13:56	208261
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	07/11/2023 18:26	208261
Calcium	NELAP	0.100	B	**52.8**	mg/L	1	07/11/2023 18:26	208261
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	07/11/2023 18:26	208261
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	07/11/2023 18:26	208261
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	07/11/2023 18:26	208261
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	07/11/2023 18:26	208261
Sample result(s) for Ca exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	07/12/2023 2:05	208261
Arsenic	NELAP	0.0010		**0.0831**	mg/L	5	07/12/2023 2:05	208261
Lithium	*	0.0030		**< 0.0030**	mg/L	5	07/17/2023 11:48	208261
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	07/12/2023 2:05	208261
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	07/12/2023 2:05	208261
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	07/11/2023 15:26	208286
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	07/24/2023 15:18	R335080

Client: City Water, Light & Power
Work Order: 23070002
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Aug-23
Lab ID: 23070002-001
Client Sample ID: RW-3
Matrix: GROUNDWATER
Collection Date: 07/06/2023 12:23

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	07/24/2023 15:18	R335080

Client: City Water, Light & Power
Work Order: 23070002
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Aug-23
Lab ID: 23070002-002
Client Sample ID: AP-1
Matrix: GROUNDWATER
Collection Date: 07/07/2023 11:08

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**504.29**	ft	1	07/07/2023 11:08	R332756
Depth to water	*	-5.00		**7.92**	ft	1	07/07/2023 11:08	R332756
Depth to water from measuring point	*	0		**10.19**	ft	1	07/07/2023 11:08	R332756
Elevation of groundwater surface	*	0		**525.18**	ft	1	07/07/2023 11:08	R332756
Measuring Point Elevation	*	0		**535.37**	ft	1	07/07/2023 11:08	R332756
Measuring Point Height Above Land Surface	*	0		**2.27**	ft	1	07/07/2023 11:08	R332756
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**6.8**	NTU	1	07/07/2023 11:08	R332756
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.7**	°F	1	07/07/2023 11:08	R332756
SW-846 9040B								
pH, Field	*	1.00		**6.51**		1	07/07/2023 11:08	R332756
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1810**	µmhos/cm @25C	1	07/07/2023 11:08	R332756
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1190**	mg/L	1	07/11/2023 10:29	R331470
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**443**	mg/L	20	07/24/2023 14:31	R333047
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.24**	mg/L	1	07/11/2023 12:55	R331398
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**36**	mg/L	2	07/24/2023 14:27	R333070
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.271**	mg/L	1	07/11/2023 18:28	208261
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	07/11/2023 18:28	208261
Boron	NELAP	0.200		**22.5**	mg/L	10	07/12/2023 20:37	208261
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	07/11/2023 18:28	208261
Calcium	NELAP	0.100	B	**285**	mg/L	1	07/11/2023 18:28	208261
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	07/11/2023 18:28	208261
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	07/11/2023 18:28	208261
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	07/11/2023 18:28	208261
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	07/11/2023 18:28	208261
Sample result(s) for Ca exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	07/12/2023 2:11	208261
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	07/12/2023 2:11	208261
Lithium	*	0.0030		**0.0109**	mg/L	5	07/17/2023 11:53	208261
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	07/12/2023 2:11	208261
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	07/12/2023 2:11	208261
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	07/11/2023 15:29	208286
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	07/24/2023 15:18	R335080
Radium-228	*	0		**See Attached**	pci/L	1	07/24/2023 15:18	R335080

Client: City Water, Light & Power
Work Order: 23070002
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Aug-23
Lab ID: 23070002-003
Client Sample ID: AP-2
Matrix: GROUNDWATER
Collection Date: 07/07/2023 12:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.77**	ft	1	07/07/2023 12:31	R332756
Depth to water	*	-5.00		**6.07**	ft	1	07/07/2023 12:31	R332756
Depth to water from measuring point	*	0		**8.57**	ft	1	07/07/2023 12:31	R332756
Elevation of groundwater surface	*	0		**527.53**	ft	1	07/07/2023 12:31	R332756
Measuring Point Elevation	*	0		**536.10**	ft	1	07/07/2023 12:31	R332756
Measuring Point Height Above Land Surface	*	0		**2.50**	ft	1	07/07/2023 12:31	R332756
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**2.3**	NTU	1	07/07/2023 12:31	R332756
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.3**	°F	1	07/07/2023 12:31	R332756
SW-846 9040B								
pH, Field	*	1.00		**6.40**		1	07/07/2023 12:31	R332756
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1390**	µmhos/cm @25C	1	07/07/2023 12:31	R332756
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1600**	mg/L	2.5	07/11/2023 10:29	R331470
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**795**	mg/L	20	07/24/2023 14:39	R333047
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.20**	mg/L	1	07/11/2023 12:58	R331398
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**54**	mg/L	2	07/26/2023 19:46	R333204
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0719**	mg/L	1	07/11/2023 18:30	208261
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	07/11/2023 18:30	208261
Boron	NELAP	0.0200		**3.73**	mg/L	1	07/12/2023 20:40	208261
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	07/11/2023 18:30	208261
Calcium	NELAP	0.100	B	**244**	mg/L	1	07/11/2023 18:30	208261
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	07/11/2023 18:30	208261
Cobalt	NELAP	0.0050		**0.0085**	mg/L	1	07/11/2023 18:30	208261
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	07/11/2023 18:30	208261
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	07/11/2023 18:30	208261
Sample result(s) for Ca exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	07/12/2023 3:13	208261
Arsenic	NELAP	0.0010		**0.0020**	mg/L	5	07/12/2023 3:13	208261
Lithium	*	0.0030		**0.0063**	mg/L	5	07/17/2023 11:58	208261
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	07/12/2023 3:13	208261
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	07/12/2023 3:13	208261
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	07/11/2023 15:31	208286
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	07/24/2023 15:18	R335080
Radium-228	*	0		**See Attached**	pci/L	1	07/24/2023 15:18	R335080

Client: City Water, Light & Power **Work Order:** 23070002

Client Project: Ash Pond Monitoring Wells **Report Date:** 16-Aug-23

Lab ID: 23070002-004 **Client Sample ID:** AP-3

Matrix: GROUNDWATER **Collection Date:** 07/07/2023 13:16

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.45**	ft	1	07/07/2023 13:16	R332756
Depth to water	*	-5.00		**9.01**	ft	1	07/07/2023 13:16	R332756
Depth to water from measuring point	*	0		**10.71**	ft	1	07/07/2023 13:16	R332756
Elevation of groundwater surface	*	0		**524.69**	ft	1	07/07/2023 13:16	R332756
Measuring Point Elevation	*	0		**535.40**	ft	1	07/07/2023 13:16	R332756
Measuring Point Height Above Land Surface	*	0		**1.70**	ft	1	07/07/2023 13:16	R332756
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**5.2**	NTU	1	07/07/2023 13:16	R332756
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.5**	°F	1	07/07/2023 13:16	R332756
SW-846 9040B								
pH, Field	*	1.00		**6.53**		1	07/07/2023 13:16	R332756
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1230**	µmhos/cm @25C	1	07/07/2023 13:16	R332756
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**990**	mg/L	2.5	07/11/2023 10:29	R331470
SW-846 9036 (TOTAL)								
Sulfate	NELAP	100		**467**	mg/L	10	07/24/2023 14:48	R333047
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.21**	mg/L	1	07/11/2023 13:00	R331398
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**51**	mg/L	2	07/24/2023 14:43	R333070
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0993**	mg/L	1	07/11/2023 18:31	208261
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	07/11/2023 18:31	208261
Boron	NELAP	0.200		**14.0**	mg/L	10	07/12/2023 20:39	208261
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	07/11/2023 18:31	208261
Calcium	NELAP	0.100	B	**189**	mg/L	1	07/11/2023 18:31	208261
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	07/11/2023 18:31	208261
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	07/11/2023 18:31	208261
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	07/11/2023 18:31	208261
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	07/11/2023 18:31	208261
Sample result(s) for Ca exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	07/12/2023 3:18	208261
Arsenic	NELAP	0.0010		**0.0109**	mg/L	5	07/12/2023 3:18	208261
Lithium	*	0.0030		**0.0063**	mg/L	5	07/17/2023 12:03	208261
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	07/12/2023 3:18	208261
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	07/12/2023 3:18	208261
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	07/11/2023 15:33	208286
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	07/24/2023 15:18	R335080
Radium-228	*	0		**See Attached**	pci/L	1	07/24/2023 15:18	R335080

Client: City Water, Light & Power
Work Order: 23070002
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Aug-23
Lab ID: 23070002-005
Client Sample ID: AP-4
Matrix: GROUNDWATER
Collection Date: 07/07/2023 11:42

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**492.46**	ft	1	07/07/2023 11:42	R332756
Depth to water	*	-5.00		**5.81**	ft	1	07/07/2023 11:42	R332756
Depth to water from measuring point	*	0		**8.95**	ft	1	07/07/2023 11:42	R332756
Elevation of groundwater surface	*	0		**546.65**	ft	1	07/07/2023 11:42	R332756
Measuring Point Elevation	*	0		**555.60**	ft	1	07/07/2023 11:42	R332756
Measuring Point Height Above Land Surface	*	0		**3.14**	ft	1	07/07/2023 11:42	R332756
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**16**	NTU	1	07/07/2023 11:42	R332756
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**70.5**	°F	1	07/07/2023 11:42	R332756
SW-846 9040B								
pH, Field	*	1.00		**6.86**		1	07/07/2023 11:42	R332756
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**875**	µmhos/cm @25C	1	07/07/2023 11:42	R332756
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**560**	mg/L	2.5	07/11/2023 10:30	R331470
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	07/24/2023 14:50	R333047
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.14**	mg/L	1	07/11/2023 13:03	R331398
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**13**	mg/L	1	07/24/2023 14:51	R333070
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.396**	mg/L	1	07/11/2023 18:33	208261
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	07/11/2023 18:33	208261
Boron	NELAP	0.0200		**0.0845**	mg/L	1	07/12/2023 20:36	208261
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	07/11/2023 18:33	208261
Calcium	NELAP	0.100	B	**132**	mg/L	1	07/11/2023 18:33	208261
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	07/11/2023 18:33	208261
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	07/11/2023 18:33	208261
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	07/11/2023 18:33	208261
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	07/11/2023 18:33	208261
Sample result(s) for Ca exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	07/12/2023 3:24	208261
Arsenic	NELAP	0.0010		**0.0239**	mg/L	5	07/12/2023 3:24	208261
Lithium	*	0.0030		**0.0078**	mg/L	5	07/17/2023 12:37	208261
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	07/12/2023 3:24	208261
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	07/12/2023 3:24	208261
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	07/11/2023 15:35	208286
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	07/24/2023 15:18	R335080
Radium-228	*	0		**See Attached**	pci/L	1	07/24/2023 15:18	R335080

Client: City Water, Light & Power
Work Order: 23070002
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Aug-23
Lab ID: 23070002-006
Client Sample ID: AP-5
Matrix: GROUNDWATER
Collection Date: 07/07/2023 13:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**552.63**	ft	1	07/07/2023 13:12	R332756
Depth to water	*	-5.00		**11.78**	ft	1	07/07/2023 13:12	R332756
Depth to water from measuring point	*	0		**14.08**	ft	1	07/07/2023 13:12	R332756
Elevation of groundwater surface	*	0		**569.82**	ft	1	07/07/2023 13:12	R332756
Measuring Point Elevation	*	0		**583.90**	ft	1	07/07/2023 13:12	R332756
Measuring Point Height Above Land Surface	*	0		**2.30**	ft	1	07/07/2023 13:12	R332756
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**1.7**	NTU	1	07/07/2023 13:12	R332756
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.0**	°F	1	07/07/2023 13:12	R332756
SW-846 9040B								
pH, Field	*	1.00		**7.16**		1	07/07/2023 13:12	R332756
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**653**	µmhos/cm @25C	1	07/07/2023 13:12	R332756
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**400**	mg/L	1	07/11/2023 10:30	R331470
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**43**	mg/L	1	07/24/2023 14:59	R333047
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.31**	mg/L	1	07/11/2023 13:06	R331398
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**4**	mg/L	1	07/24/2023 14:59	R333070
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0461**	mg/L	1	07/11/2023 18:44	208261
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	07/11/2023 18:44	208261
Boron	NELAP	0.0200		**0.0323**	mg/L	1	07/15/2023 16:20	208261
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	07/11/2023 18:44	208261
Calcium	NELAP	0.100	BS	**96.3**	mg/L	1	07/11/2023 18:44	208261
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	07/11/2023 18:44	208261
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	07/11/2023 18:44	208261
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	07/11/2023 18:44	208261
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	07/11/2023 18:44	208261
Sample result(s) for Ca exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
Matrix spike control limits for are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	07/12/2023 3:41	208261
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	07/12/2023 3:41	208261
Lithium	*	0.0030		**0.0046**	mg/L	5	07/18/2023 8:56	208261
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	07/12/2023 3:41	208261
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	07/12/2023 3:41	208261
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	07/12/2023 8:24	208286
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	07/26/2023 16:09	R335080

Client: City Water, Light & Power
Work Order: 23070002
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Aug-23
Lab ID: 23070002-006
Client Sample ID: AP-5
Matrix: GROUNDWATER
Collection Date: 07/07/2023 13:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	07/26/2023 16:09	R335080

Client: City Water, Light & Power
Work Order: 23070002
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Aug-23
Lab ID: 23070002-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 07/06/2023 13:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.20**	ft	1	07/06/2023 13:30	R332756
Depth to water	*	-5.00		**7.06**	ft	1	07/06/2023 13:30	R332756
Depth to water from measuring point	*	0		**9.48**	ft	1	07/06/2023 13:30	R332756
Elevation of groundwater surface	*	0		**528.34**	ft	1	07/06/2023 13:30	R332756
Measuring Point Elevation	*	0		**537.82**	ft	1	07/06/2023 13:30	R332756
Measuring Point Height Above Land Surface	*	0		**2.42**	ft	1	07/06/2023 13:30	R332756
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.7**	NTU	1	07/06/2023 13:30	R332756
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.9**	°F	1	07/06/2023 13:30	R332756
SW-846 9040B								
pH, Field	*	1.00		**7.06**		1	07/06/2023 13:30	R332756
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**407**	µmhos/cm @25C	1	07/06/2023 13:30	R332756
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**268**	mg/L	1	07/07/2023 15:00	R331380
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**22**	mg/L	1	07/24/2023 15:20	R333047
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.26**	mg/L	1	07/11/2023 13:07	R331398
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**28**	mg/L	1	07/24/2023 15:20	R333070
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0844**	mg/L	1	07/11/2023 18:34	208261
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	07/11/2023 18:34	208261
Boron	NELAP	0.0200		**0.0753**	mg/L	1	07/12/2023 20:44	208261
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	07/11/2023 18:34	208261
Calcium	NELAP	0.100	B	**49.0**	mg/L	1	07/11/2023 18:34	208261
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	07/11/2023 18:34	208261
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	07/11/2023 18:34	208261
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	07/11/2023 18:34	208261
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	07/11/2023 18:34	208261
Sample result(s) for Ca exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	07/12/2023 3:30	208261
Arsenic	NELAP	0.0010		**0.0040**	mg/L	5	07/12/2023 3:30	208261
Lithium	*	0.0030		**< 0.0030**	mg/L	5	07/17/2023 12:41	208261
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	07/12/2023 3:30	208261
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	07/12/2023 3:30	208261
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	07/11/2023 15:49	208286
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	07/25/2023 15:30	R335080

Client: City Water, Light & Power
Work Order: 23070002
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Aug-23
Lab ID: 23070002-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 07/06/2023 13:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	07/25/2023 15:30	R335080

Client: City Water, Light & Power
Work Order: 23070002
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Aug-23
Lab ID: 23070002-008
Client Sample ID: AP-7
Matrix: GROUNDWATER
Collection Date: 07/07/2023 12:23

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**496.50**	ft	1	07/07/2023 12:23	R332756
Depth to water	*	-5.00		**8.66**	ft	1	07/07/2023 12:23	R332756
Depth to water from measuring point	*	0		**11.32**	ft	1	07/07/2023 12:23	R332756
Elevation of groundwater surface	*	0		**527.70**	ft	1	07/07/2023 12:23	R332756
Measuring Point Elevation	*	0		**539.02**	ft	1	07/07/2023 12:23	R332756
Measuring Point Height Above Land Surface	*	0		**2.66**	ft	1	07/07/2023 12:23	R332756
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**11**	NTU	1	07/07/2023 12:23	R332756
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.2**	°F	1	07/07/2023 12:23	R332756
SW-846 9040B								
pH, Field	*	1.00		**7.28**		1	07/07/2023 12:23	R332756
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**586**	µmhos/cm @25C	1	07/07/2023 12:23	R332756
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**300**	mg/L	2.5	07/11/2023 10:30	R331470
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**20**	mg/L	1	07/24/2023 15:28	R333047
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.34**	mg/L	1	07/11/2023 13:09	R331398
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**39**	mg/L	1	07/24/2023 15:28	R333070
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.106**	mg/L	1	07/11/2023 18:49	208261
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	07/11/2023 18:49	208261
Boron	NELAP	0.0200		**0.141**	mg/L	1	07/15/2023 16:25	208261
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	07/11/2023 18:49	208261
Calcium	NELAP	0.100	B	**49.6**	mg/L	1	07/11/2023 18:49	208261
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	07/11/2023 18:49	208261
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	07/11/2023 18:49	208261
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	07/11/2023 18:49	208261
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	07/11/2023 18:49	208261
Sample result(s) for Ca exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	07/12/2023 3:35	208261
Arsenic	NELAP	0.0010		**0.0412**	mg/L	5	07/12/2023 3:35	208261
Lithium	*	0.0030		**0.0047**	mg/L	5	07/17/2023 12:46	208261
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	07/12/2023 3:35	208261
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	07/12/2023 3:35	208261
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	07/11/2023 15:51	208286
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	07/25/2023 15:30	R335080
Radium-228	*	0		**See Attached**	pci/L	1	07/25/2023 15:30	R335080

Client: City Water, Light & Power
Work Order: 23070002
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Aug-23
Lab ID: 23070002-009
Client Sample ID: AP-8
Matrix: GROUNDWATER
Collection Date: 07/07/2023 10:39

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.60**	ft	1	07/07/2023 10:39	R332756
Depth to water	*	-5.00		**3.84**	ft	1	07/07/2023 10:39	R332756
Depth to water from measuring point	*	0		**6.74**	ft	1	07/07/2023 10:39	R332756
Elevation of groundwater surface	*	0		**530.46**	ft	1	07/07/2023 10:39	R332756
Measuring Point Elevation	*	0		**537.20**	ft	1	07/07/2023 10:39	R332756
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	07/07/2023 10:39	R332756
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**4.6**	NTU	1	07/07/2023 10:39	R332756
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.8**	°F	1	07/07/2023 10:39	R332756
SW-846 9040B								
pH, Field	*	1.00		**6.75**		1	07/07/2023 10:39	R332756
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**906**	µmhos/cm @25C	1	07/07/2023 10:39	R332756
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**555**	mg/L	2.5	07/11/2023 10:52	R331470
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	07/24/2023 15:36	R333047
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.29**	mg/L	1	07/11/2023 13:18	R331398
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**25**	mg/L	1	07/24/2023 15:36	R333070
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.378**	mg/L	1	07/11/2023 18:50	208261
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	07/11/2023 18:50	208261
Boron	NELAP	0.0200		**0.0932**	mg/L	1	07/15/2023 16:27	208261
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	07/11/2023 18:50	208261
Calcium	NELAP	0.100	B	**107**	mg/L	1	07/11/2023 18:50	208261
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	07/11/2023 18:50	208261
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	07/11/2023 18:50	208261
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	07/11/2023 18:50	208261
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	07/11/2023 18:50	208261
Sample result(s) for Ca exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	07/12/2023 4:20	208261
Arsenic	NELAP	0.0010		**0.0513**	mg/L	5	07/12/2023 4:20	208261
Lithium	*	0.0030		**0.0074**	mg/L	5	07/17/2023 12:51	208261
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	07/12/2023 4:20	208261
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	07/12/2023 4:20	208261
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	07/11/2023 15:54	208286
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	07/25/2023 15:30	R335080
Radium-228	*	0		**See Attached**	pci/L	1	07/25/2023 15:30	R335080

Client: City Water, Light & Power
Work Order: 23070002
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Aug-23
Lab ID: 23070002-011
Client Sample ID: AP-10
Matrix: GROUNDWATER
Collection Date: 07/07/2023 11:47

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**499.43**	ft	1	07/07/2023 11:47	R332756
Depth to water	*	-5.00		**1.86**	ft	1	07/07/2023 11:47	R332756
Depth to water from measuring point	*	0		**4.96**	ft	1	07/07/2023 11:47	R332756
Elevation of groundwater surface	*	0		**532.54**	ft	1	07/07/2023 11:47	R332756
Measuring Point Elevation	*	0		**537.50**	ft	1	07/07/2023 11:47	R332756
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	07/07/2023 11:47	R332756
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.2**	NTU	1	07/07/2023 11:47	R332756
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.3**	°F	1	07/07/2023 11:47	R332756
SW-846 9040B								
pH, Field	*	1.00		**6.57**		1	07/07/2023 11:47	R332756
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1170**	µmhos/cm @25C	1	07/07/2023 11:47	R332756
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**725**	mg/L	2.5	07/11/2023 10:52	R331470
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**100**	mg/L	5	07/24/2023 15:52	R333047
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.32**	mg/L	1	07/11/2023 13:22	R331398
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**28**	mg/L	5	07/24/2023 15:52	R333070
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.596**	mg/L	1	07/11/2023 11:04	208262
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	07/11/2023 11:04	208262
Boron	NELAP	0.0200		**3.81**	mg/L	1	07/11/2023 11:04	208262
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	07/11/2023 11:04	208262
Calcium	NELAP	0.100		**138**	mg/L	1	07/11/2023 11:04	208262
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	07/11/2023 11:04	208262
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	07/11/2023 11:04	208262
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	07/11/2023 11:04	208262
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	07/11/2023 11:04	208262
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	07/13/2023 21:28	208262
Arsenic	NELAP	0.0010		**0.0013**	mg/L	5	07/13/2023 21:28	208262
Lithium	*	0.0030		**0.0100**	mg/L	5	07/17/2023 11:29	208262
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	07/13/2023 21:28	208262
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	07/13/2023 21:28	208262
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	07/12/2023 13:56	208287
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	07/25/2023 15:30	R335080
Radium-228	*	0		**See Attached**	pci/L	1	07/25/2023 15:30	R335080

Client: City Water, Light & Power
Work Order: 23070002
Client Project: Ash Pond Monitoring Wells
Report Date: 16-Aug-23
Lab ID: 23070002-015
Client Sample ID: AP-14
Matrix: GROUNDWATER
Collection Date: 07/07/2023 11:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**508.40**	ft	1	07/07/2023 11:21	R332756
Depth to water	*	-5.00		**-1.32**	ft	1	07/07/2023 11:21	R332756
Depth to water from measuring point	*	0		**1.48**	ft	1	07/07/2023 11:21	R332756
Elevation of groundwater surface	*	0		**538.12**	ft	1	07/07/2023 11:21	R332756
Measuring Point Elevation	*	0		**539.60**	ft	1	07/07/2023 11:21	R332756
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	07/07/2023 11:21	R332756
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**28**	NTU	1	07/07/2023 11:21	R332756
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.4**	°F	1	07/07/2023 11:21	R332756
SW-846 9040B								
pH, Field	*	1.00		**6.93**		1	07/07/2023 11:21	R332756
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1660**	µmhos/cm @25C	1	07/07/2023 11:21	R332756
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1480**	mg/L	2.5	07/11/2023 10:53	R331470
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**714**	mg/L	20	07/24/2023 16:42	R333047
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.27**	mg/L	1	07/11/2023 13:30	R331398
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**73**	mg/L	5	07/24/2023 16:38	R333070
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0349**	mg/L	1	07/11/2023 11:21	208262
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	07/11/2023 11:21	208262
Boron	NELAP	0.200		**22.6**	mg/L	10	07/11/2023 17:21	208262
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	07/11/2023 11:21	208262
Calcium	NELAP	0.100		**235**	mg/L	1	07/11/2023 11:21	208262
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	07/11/2023 11:21	208262
Cobalt	NELAP	0.0050		**0.0051**	mg/L	1	07/11/2023 11:21	208262
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	07/11/2023 11:21	208262
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	07/11/2023 11:21	208262
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	07/13/2023 22:53	208262
Arsenic	NELAP	0.0010		**0.0018**	mg/L	5	07/13/2023 22:53	208262
Lithium	*	0.0030		**0.0076**	mg/L	5	07/17/2023 11:43	208262
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	07/13/2023 22:53	208262
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	07/13/2023 22:53	208262
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	07/12/2023 14:09	208287
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	07/25/2023 15:30	R335080
Radium-228	*	0		**See Attached**	pci/L	1	07/25/2023 15:30	R335080

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 23070002
Report Date: 16-Aug-23

Carrier: Tracy Carroll

Received By: ANC

Completed by: Allison Colin
On: 10-Jul-23

Reviewed by: Ellie Hopkins
On: 10-Jul-23

Pages to follow: Chain of custody 3 Extra pages included 42

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 5.2
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

pH strip #90719. - acolin - 7/10/2023 9:09:38 AM

Additional nitric acid (90404) was needed in AP2 2L, AP3 2L, AP4 2L, AP8 2L, AP9 2L, AP10 2L, AP12 250 & 2L upon arrival at the laboratory. - acolin - 7/10/2023 9:09:41 AM

Samples collected on 7/7/23 were delivered to the laboratory on 7/7/23 at 1644 (on ice - 5.2C - LTG#1). pH strip #90719 - ERH 7/10/23

CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 23070002

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 5.2 °C GTG S
Preserved in: [ ] LAB [X] FIELD FOR LAB USE ONLY
LAB NOTES: pH-9719.Cert 7-6-23.

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
JCarroll

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers									INDICATE ANALYSIS REQUESTED												
				UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity								
23070002-001	RW-3	7/6/23 1223	Groundwater	1	2								✓	✓	✓	✓	✓	✓								
002	AP-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
003	AP-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
004	AP-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
005	AP-4		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
006	AP-5		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
007	AP-6	7/6/23 1330	Groundwater	1	2								✓	✓	✓	✓	✓	✓								
008	AP-7		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
009	AP-8		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
010	AP-9		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
011	AP-10		Groundwater	1	2								✓	✓	✓	✓	✓	✓								

Relinquished By	Date/Time	Received By	Date/Time
Jeremy Carroll	7/6/23 1703		7-6-23 1730

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

7-6-23

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 23070002

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power

Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building

City/State/Zip: Springfield IL 62712

Contact: Eric Staley Phone: (217) 757-8610

Email: eric.staley@cwlp.com Fax:

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 5.2 °C

Preserved in: ☒ LAB ☐ FIELD FOR LAB USE ONLY #1

LAB NOTES: PH 90719

2L 2L 2L 2L 2L 2L 250+2L

Added HNO3(90404) to AP2, AP3, AP4, AP8, AP9, AP10, AP12

ANR 7/10/23

Client Comments:

*elevations, pH, conductivity, temperature

**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo

Quarterly monitoring

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No

Are these samples known to be hazardous? ☐ Yes ☑ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

PROJECT NAME/NUMBER

Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME

Justin Colp TCarroll

RESULTS REQUESTED

☑ Standard ☐ 1-2 Day (100% Surcharge)

☐ Other ____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
23070002-001	RW-3		Groundwater	1	2								✔	✔	✔	✔	✔	✔
002	AP-1	7/7/23 1108	Groundwater	1	2								✔	✔	✔	✔	✔	✔
003	AP-2	1231	Groundwater	1	2								✔	✔	✔	✔	✔	✔
004	AP-3	1316	Groundwater	1	2								✔	✔	✔	✔	✔	✔
005	AP-4	7-7-23 1142	Groundwater	1	2								✔	✔	✔	✔	✔	✔
006	AP-5	7-7-23 1312	Groundwater	1	2								✔	✔	✔	✔	✔	✔
007	AP-6		Groundwater	1	2								✔	✔	✔	✔	✔	✔
008	AP-7	7-7-23 1223	Groundwater	1	2								✔	✔	✔	✔	✔	✔
009	AP-8	7/7/23 1039	Groundwater	1	2								✔	✔	✔	✔	✔	✔
010	AP-9	7-7-23 1240	Groundwater	1	2								✔	✔	✔	✔	✔	✔
011	AP-10	7/7/23 1147	Groundwater	1	2								✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
Teresa Carroll	7/7/23 1644		7/7/23 1644

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Print PDF

CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 23070002

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Gilp TCarroll

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
23070002-012	AP-11	7-7-23 / 1434	Groundwater	1	2								✓	✓	✓	✓	✓	✓
013	AP-12	" / 1416	Groundwater	1	2								✓	✓	✓	✓	✓	✓
014	AP-13	" / 1347	Groundwater	1	2								✓	✓	✓	✓	✓	✓
015	AP-14	" / 1121	Groundwater	1	2								✓	✓	✓	✓	✓	✓
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
Tracy Carroll	7/7/23 1644	Allison Lee	7/7 1644

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Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

August 15, 2023

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 23070002

Dear Shelly Hennessy:

Order No.: 23070747

Summit Environmental Technologies, Inc. received 15 sample(s) on 7/12/2023 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

Summit Environmental Technologies, Inc.
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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Case Narrative

WO#: **23070747**
Date: **8/15/2023**

CLIENT: TEKLAB Inc,
Project: 23070002

WorkOrder Narrative:
23070747: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, In
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-44
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **23070747**
Date: **8/15/2023**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Workorder Sample Summary

WO#: **23070747**

15-Aug-23

CLIENT: TEKLAB Inc,
Project: 23070002

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23070747-001	23070002-001		7/6/2023 12:23:00 PM	7/12/2023 12:00:00 PM	Non-Potable Water
23070747-002	23070002-002		7/7/2023 11:08:00 AM	7/12/2023 12:00:00 PM	Non-Potable Water
23070747-003	23070002-003		7/7/2023 12:31:00 PM	7/12/2023 12:00:00 PM	Non-Potable Water
23070747-004	23070002-004		7/7/2023 1:16:00 PM	7/12/2023 12:00:00 PM	Non-Potable Water
23070747-005	23070002-005		7/7/2023 11:42:00 AM	7/12/2023 12:00:00 PM	Non-Potable Water
23070747-006	23070002-006		7/7/2023 1:12:00 PM	7/12/2023 12:00:00 PM	Non-Potable Water
23070747-007	23070002-007		7/6/2023 1:30:00 PM	7/12/2023 12:00:00 PM	Non-Potable Water
23070747-008	23070002-008		7/7/2023 12:23:00 PM	7/12/2023 12:00:00 PM	Non-Potable Water
23070747-009	23070002-009		7/7/2023 10:39:00 AM	7/12/2023 12:00:00 PM	Non-Potable Water
23070747-010	23070002-010		7/7/2023 12:40:00 PM	7/12/2023 12:00:00 PM	Non-Potable Water
23070747-011	23070002-011		7/7/2023 11:47:00 AM	7/12/2023 12:00:00 PM	Non-Potable Water
23070747-012	23070002-012		7/7/2023 2:34:00 PM	7/12/2023 12:00:00 PM	Non-Potable Water
23070747-013	23070002-013		7/7/2023 2:16:00 PM	7/12/2023 12:00:00 PM	Non-Potable Water
23070747-014	23070002-014		7/7/2023 1:47:00 PM	7/12/2023 12:00:00 PM	Non-Potable Water
23070747-015	23070002-015		7/7/2023 11:21:00 AM	7/12/2023 12:00:00 PM	Non-Potable Water

Summit Environmental Technologies, Inc.
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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

DATES REPORT

WO#: **23070747**

15-Aug-23

Client: TEKLAB Inc,

Project: 23070002

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23070747-001A	23070002-001	7/6/2023 12:23:00 PM	Non-Potable Water	Radium-226 (EPA 903.0)		7/17/2023 2:35:11 PM	7/25/2023 9:25:00 AM
				Radium-228 (EPA 904.0)		7/17/2023 2:35:11 PM	7/24/2023 3:18:00 PM
23070747-002A	23070002-002	7/7/2023 11:08:00 AM		Radium-226 (EPA 903.0)		7/17/2023 2:35:11 PM	7/25/2023 9:25:00 AM
				Radium-228 (EPA 904.0)		7/17/2023 2:35:11 PM	7/24/2023 3:18:00 PM
23070747-003A	23070002-003	7/7/2023 12:31:00 PM		Radium-226 (EPA 903.0)		7/17/2023 2:35:11 PM	7/25/2023 9:25:00 AM
				Radium-228 (EPA 904.0)		7/17/2023 2:35:11 PM	7/24/2023 3:18:00 PM
23070747-004A	23070002-004	7/7/2023 1:16:00 PM		Radium-226 (EPA 903.0)		7/17/2023 2:35:11 PM	7/25/2023 9:25:00 AM
				Radium-228 (EPA 904.0)		7/17/2023 2:35:11 PM	7/24/2023 3:18:00 PM
23070747-005A	23070002-005	7/7/2023 11:42:00 AM		Radium-226 (EPA 903.0)		7/17/2023 2:35:11 PM	7/25/2023 9:25:00 AM
				Radium-228 (EPA 904.0)		7/17/2023 2:35:11 PM	7/24/2023 3:18:00 PM
23070747-006A	23070002-006	7/7/2023 1:12:00 PM		Radium-226 (EPA 903.0)		7/21/2023 11:56:00 AM	7/27/2023 10:01:00 AM
				Radium-228 (EPA 904.0)		7/21/2023 11:56:00 AM	7/26/2023 4:09:00 PM
23070747-007A	23070002-007	7/6/2023 1:30:00 PM		Radium-226 (EPA 903.0)		7/19/2023 2:03:37 PM	7/26/2023 10:02:00 AM
				Radium-228 (EPA 904.0)		7/19/2023 2:03:37 PM	7/25/2023 3:30:00 PM
23070747-008A	23070002-008	7/7/2023 12:23:00 PM		Radium-226 (EPA 903.0)		7/19/2023 2:03:37 PM	7/26/2023 10:02:00 AM
				Radium-228 (EPA 904.0)		7/19/2023 2:03:37 PM	7/25/2023 3:30:00 PM
23070747-009A	23070002-009	7/7/2023 10:39:00 AM		Radium-226 (EPA 903.0)		7/19/2023 2:03:37 PM	7/26/2023 10:02:00 AM
				Radium-228 (EPA 904.0)		7/19/2023 2:03:37 PM	7/25/2023 3:30:00 PM
23070747-010A	23070002-010	7/7/2023 12:40:00 PM		Radium-226 (EPA 903.0)		7/19/2023 2:03:37 PM	7/26/2023 10:02:00 AM
				Radium-228 (EPA 904.0)		7/19/2023 2:03:37 PM	7/25/2023 3:30:00 PM
23070747-011A	23070002-011	7/7/2023 11:47:00 AM		Radium-226 (EPA 903.0)		7/19/2023 2:03:37 PM	7/26/2023 10:02:00 AM
				Radium-228 (EPA 904.0)		7/19/2023 2:03:37 PM	7/25/2023 3:30:00 PM
23070747-012A	23070002-012	7/7/2023 2:34:00 PM		Radium-226 (EPA 903.0)		7/19/2023 2:03:37 PM	7/26/2023 10:02:00 AM

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

DATES REPORT

WO#: **23070747**

15-Aug-23

Client: TEKLAB Inc,

Project: 23070002

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23070747-012A	23070002-012	7/7/2023 2:34:00 PM	Non-Potable Water	Radium-228 (EPA 904.0)		7/19/2023 2:03:37 PM	7/25/2023 3:30:00 PM
23070747-013A	23070002-013	7/7/2023 2:16:00 PM		Radium-226 (EPA 903.0)		7/19/2023 2:03:37 PM	7/26/2023 10:02:00 AM
				Radium-228 (EPA 904.0)		7/19/2023 2:03:37 PM	7/25/2023 3:30:00 PM
23070747-014A	23070002-014	7/7/2023 1:47:00 PM		Radium-226 (EPA 903.0)		7/19/2023 2:03:37 PM	7/26/2023 10:02:00 AM
				Radium-228 (EPA 904.0)		7/19/2023 2:03:37 PM	7/25/2023 3:30:00 PM
				Radium-228 (EPA 904.0)		8/10/2023 4:23:11 PM	8/14/2023 3:29:00 PM
				Radium-228 (EPA 904.0)		7/27/2023 11:50:00 AM	8/3/2023 4:04:00 PM
23070747-015A	23070002-015	7/7/2023 11:21:00 AM		Radium-226 (EPA 903.0)		7/19/2023 2:03:37 PM	7/26/2023 10:02:00 AM
				Radium-228 (EPA 904.0)		7/19/2023 2:03:37 PM	7/25/2023 3:30:00 PM

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **23070747**

Date Reported: **8/15/2023**

CLIENT: TEKLAB Inc,
Collection Date: 7/6/2023 12:23:00 PM
Project: 23070002
Lab ID: 23070747-001
Matrix: NON-POTABLE WATER
Client Sample ID: 23070002-001

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.06	1	7/25/2023 9:25:00 AM
Yield	1.00					1	7/25/2023 9:25:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.74	1	7/24/2023 3:18:00 PM
Yield	1.00					1	7/24/2023 3:18:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

Summit Environmental Technologies, Inc.
3310 Win St.
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Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **23070747**

Date Reported: **8/15/2023**

CLIENT: TEKLAB Inc,
Collection Date: 7/7/2023 11:08:00 AM
Project: 23070002
Lab ID: 23070747-002
Matrix: NON-POTABLE WATER
Client Sample ID: 23070002-002

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.09	1	7/25/2023 9:25:00 AM
Yield	1.00					1	7/25/2023 9:25:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.63	1	7/24/2023 3:18:00 PM
Yield	1.00					1	7/24/2023 3:18:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

Summit Environmental Technologies, Inc.
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Analytical Report

(consolidated)

WO#: **23070747**

Date Reported: **8/15/2023**

CLIENT: TEKLAB Inc,
Collection Date: 7/7/2023 12:31:00 PM
Project: 23070002
Lab ID: 23070747-003
Matrix: NON-POTABLE WATER
Client Sample ID: 23070002-003

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.09	1	7/25/2023 9:25:00 AM
Yield	1.00					1	7/25/2023 9:25:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.74	1	7/24/2023 3:18:00 PM
Yield	1.00					1	7/24/2023 3:18:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **23070747**

Date Reported: **8/15/2023**

CLIENT: TEKLAB Inc,
Collection Date: 7/7/2023 1:16:00 PM
Project: 23070002
Lab ID: 23070747-004
Matrix: NON-POTABLE WATER
Client Sample ID: 23070002-004

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.05	1	7/25/2023 9:25:00 AM
Yield	1.00					1	7/25/2023 9:25:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.87	1	7/24/2023 3:18:00 PM
Yield	1.00					1	7/24/2023 3:18:00 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **23070747**

Date Reported: **8/15/2023**

CLIENT: TEKLAB Inc,
Collection Date: 7/7/2023 11:42:00 AM
Project: 23070002
Lab ID: 23070747-005
Matrix: NON-POTABLE WATER
Client Sample ID: 23070002-005

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.12	1	7/25/2023 9:25:00 AM
Yield	1.00					1	7/25/2023 9:25:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	1.12	1.00		pCi/L	± 0.88	1	7/24/2023 3:18:00 PM
Yield	1.00					1	7/24/2023 3:18:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **23070747**

Date Reported: **8/15/2023**

CLIENT: TEKLAB Inc,
Collection Date: 7/7/2023 1:12:00 PM
Project: 23070002
Lab ID: 23070747-006
Matrix: NON-POTABLE WATER
Client Sample ID: 23070002-006

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.05	1	7/27/2023 10:01:00 AM
Yield	1.00					1	7/27/2023 10:01:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.4	1	7/26/2023 4:09:00 PM
Yield	1.00					1	7/26/2023 4:09:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **23070747**

Date Reported: **8/15/2023**

CLIENT: TEKLAB Inc,
Collection Date: 7/6/2023 1:30:00 PM
Project: 23070002
Lab ID: 23070747-007
Matrix: NON-POTABLE WATER
Client Sample ID: 23070002-007

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.04	1	7/26/2023 10:02:00 AM
Yield	1.00					1	7/26/2023 10:02:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.49	1	7/25/2023 3:30:00 PM
Yield	0.930					1	7/25/2023 3:30:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **23070747**

Date Reported: **8/15/2023**

CLIENT: TEKLAB Inc,
Collection Date: 7/7/2023 12:23:00 PM
Project: 23070002
Lab ID: 23070747-008
Matrix: NON-POTABLE WATER
Client Sample ID: 23070002-008

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.06	1	7/26/2023 10:02:00 AM
Yield	1.00					1	7/26/2023 10:02:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.53	1	7/25/2023 3:30:00 PM
Yield	0.910					1	7/25/2023 3:30:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **23070747**

Date Reported: **8/15/2023**

CLIENT: TEKLAB Inc,
Collection Date: 7/7/2023 10:39:00 AM
Project: 23070002
Lab ID: 23070747-009
Matrix: NON-POTABLE WATER
Client Sample ID: 23070002-009

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.17	1	7/26/2023 10:02:00 AM
Yield	1.00					1	7/26/2023 10:02:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.54	1	7/25/2023 3:30:00 PM
Yield	1.00					1	7/25/2023 3:30:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **23070747**

Date Reported: **8/15/2023**

CLIENT: TEKLAB Inc,
Collection Date: 7/7/2023 11:47:00 AM
Project: 23070002
Lab ID: 23070747-011
Matrix: NON-POTABLE WATER
Client Sample ID: 23070002-011

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.11	1	7/26/2023 10:02:00 AM
Yield	1.00					1	7/26/2023 10:02:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	1.12	1.00		pCi/L	± 0.6	1	7/25/2023 3:30:00 PM
Yield	1.00					1	7/25/2023 3:30:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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Analytical Report

(consolidated)

WO#: **23070747**

Date Reported: **8/15/2023**

CLIENT: TEKLAB Inc,
Collection Date: 7/7/2023 11:21:00 AM
Project: 23070002
Lab ID: 23070747-015
Matrix: NON-POTABLE WATER
Client Sample ID: 23070002-015

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.03	1	7/26/2023 10:02:00 AM
Yield	1.00					1	7/26/2023 10:02:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.57	1	7/25/2023 3:30:00 PM
Yield	1.00					1	7/25/2023 3:30:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
ND	Not Detected	OG1	
P	Second column confirmation exceeds	PL	Permit Limit

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QC SUMMARY REPORT

WO#: **23070747**

15-Aug-23

Client: TEKLAB Inc,
Project: 23070002 **BatchID:** **66938**

Sample ID: **MB-66938**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **7/17/2023**	RunNo: **167890**
Client ID: **PBW**	Batch ID: **66938**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/24/2023**	SeqNo: **4506021**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	0.950			0	0						

Sample ID: **LCSD-66938**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **7/17/2023**	RunNo: **167890**
Client ID: **LCSS02**	Batch ID: **66938**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/24/2023**	SeqNo: **4506023**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.74	1.00	5.000	0	94.8	70	130	3.440	31.8	20	R
Yield	1.00			0	0			1.000	0		

Sample ID: **RLC-66938**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **7/17/2023**	RunNo: **167890**
Client ID: **BatchQC**	Batch ID: **66938**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/24/2023**	SeqNo: **4506025**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00	1.000	0	78.0	50	150				
Yield	1.00			0	0						

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **23070747**

15-Aug-23

Client: TEKLAB Inc,
Project: 23070002 **BatchID:** **66938**

Sample ID: **RLCD-66938** SampType: **RLC** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/17/2023** RunNo: **167890**
Client ID: **BatchQC** Batch ID: **66938** TestNo: **E904.0** **E903-904** Analysis Date: **7/24/2023** SeqNo: **4506026**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.02	1.00	1.000	0	102	50	150				
Yield	1.00			0	0						

Sample ID: **23070595-001AMS** SampType: **MS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/17/2023** RunNo: **167890**
Client ID: **BatchQC** Batch ID: **66938** TestNo: **E904.0** **E903-904** Analysis Date: **7/24/2023** SeqNo: **4506027**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	2.04	1.00	5.000	0	40.8	70	130				S
Yield	1.00			1.000	0						

Sample ID: **23070596-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/17/2023** RunNo: **167890**
Client ID: **BatchQC** Batch ID: **66938** TestNo: **E904.0** **E903-904** Analysis Date: **7/24/2023** SeqNo: **4506030**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	0.910			0	0			0.9500	4.30		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **23070747**

15-Aug-23

Client: TEKLAB Inc,
Project: 23070002 **BatchID:** **66938**

Sample ID: **23070597-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/17/2023** RunNo: **167890**
Client ID: **BatchQC** Batch ID: **66938** TestNo: **E904.0** **E903-904** Analysis Date: **7/24/2023** SeqNo: **4506032**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **23070747**

15-Aug-23

Client: TEKLAB Inc,
Project: 23070002 **BatchID:** **66938**

Sample ID: **MB-66938** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/17/2023** RunNo: **167894**
Client ID: **PBW** Batch ID: **66938** TestNo: **E903.0** **E903-904** Analysis Date: **7/25/2023** SeqNo: **4506087**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-66938** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/17/2023** RunNo: **167894**
Client ID: **LCSW** Batch ID: **66938** TestNo: **E903.0** **E903-904** Analysis Date: **7/25/2023** SeqNo: **4506088**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.00	1.00	5.000	0	100	70	130				

Sample ID: **LCSD-66938** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/17/2023** RunNo: **167894**
Client ID: **LCSS02** Batch ID: **66938** TestNo: **E903.0** **E903-904** Analysis Date: **7/25/2023** SeqNo: **4506089**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.16	1.00	5.000	0	103	70	130	5.000	3.15	20	

Sample ID: **RLC-66938** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/17/2023** RunNo: **167894**
Client ID: **BatchQC** Batch ID: **66938** TestNo: **E903.0** **E903-904** Analysis Date: **7/25/2023** SeqNo: **4506091**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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3310 Win St.
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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **23070747**

15-Aug-23

Client: TEKLAB Inc,
Project: 23070002 **BatchID:** **66938**

Sample ID: **RLC-66938** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/17/2023** RunNo: **167894**
Client ID: **BatchQC** Batch ID: **66938** TestNo: **E903.0** **E903-904** Analysis Date: **7/25/2023** SeqNo: **4506091**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.34	1.00	1.000	0	134	50	150				

Sample ID: **RLCD-66938** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/17/2023** RunNo: **167894**
Client ID: **BatchQC** Batch ID: **66938** TestNo: **E903.0** **E903-904** Analysis Date: **7/25/2023** SeqNo: **4506092**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.11	1.00	1.000	0	111	50	150				

Sample ID: **23070595-001AMS** SampType: **MS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/17/2023** RunNo: **167894**
Client ID: **BatchQC** Batch ID: **66938** TestNo: **E903.0** **E903-904** Analysis Date: **7/25/2023** SeqNo: **4506093**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.35	1.00	5.000	0	87.0	70	130				

Sample ID: **23070596-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/17/2023** RunNo: **167894**
Client ID: **BatchQC** Batch ID: **66938** TestNo: **E903.0** **E903-904** Analysis Date: **7/25/2023** SeqNo: **4506096**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **23070747**

15-Aug-23

Client: TEKLAB Inc,
Project: 23070002 **BatchID:** **66938**

Sample ID: **23070596-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **7/17/2023**	RunNo: **167894**
Client ID: **BatchQC**	Batch ID: **66938**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/25/2023**	SeqNo: **4506096**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Yield	1.00							1.000	0	0	

Sample ID: **23070597-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **7/17/2023**	RunNo: **167894**
Client ID: **BatchQC**	Batch ID: **66938**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/25/2023**	SeqNo: **4506098**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **23070747**

15-Aug-23

Client: TEKLAB Inc,
Project: 23070002 **BatchID:** **67011**

Sample ID: **MB-67011**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **7/19/2023**	RunNo: **167896**
Client ID: **PBW**	Batch ID: **67011**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/25/2023**	SeqNo: **4506126**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-67011**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **7/19/2023**	RunNo: **167896**
Client ID: **LCSW**	Batch ID: **67011**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/25/2023**	SeqNo: **4506127**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.58	1.00	5.000	0	71.6	70	130				
Yield	1.00			0	0						

Sample ID: **RLCD-67011**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **7/19/2023**	RunNo: **167896**
Client ID: **BatchQC**	Batch ID: **67011**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/25/2023**	SeqNo: **4506131**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00	1.000	0	78.0	50	150				
Yield	1.00			0	0						

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **23070747**

15-Aug-23

Client: TEKLAB Inc,
Project: 23070002 **BatchID:** **67011**

Sample ID: **23071031-001AMS** SampType: **MS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/19/2023** RunNo: **167896**
Client ID: **BatchQC** Batch ID: **67011** TestNo: **E904.0** **E903-904** Analysis Date: **7/25/2023** SeqNo: **4506132**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	2.64	1.00	5.000	0	52.8	70	130				S
Yield	1.00			1.000	0						

Sample ID: **23071032-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/19/2023** RunNo: **167896**
Client ID: **BatchQC** Batch ID: **67011** TestNo: **E904.0** **E903-904** Analysis Date: **7/25/2023** SeqNo: **4506135**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			0.9100	9.42		

Sample ID: **23070816-002ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/19/2023** RunNo: **167896**
Client ID: **BatchQC** Batch ID: **67011** TestNo: **E904.0** **E903-904** Analysis Date: **7/25/2023** SeqNo: **4506137**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **23070747**

15-Aug-23

Client: TEKLAB Inc,
Project: 23070002 **BatchID:** **67011**

Sample ID: **MB-67011** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/19/2023** RunNo: **167898**
Client ID: **PBW** Batch ID: **67011** TestNo: **E903.0** **E903-904** Analysis Date: **7/26/2023** SeqNo: **4506168**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-67011** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/19/2023** RunNo: **167898**
Client ID: **LCSW** Batch ID: **67011** TestNo: **E903.0** **E903-904** Analysis Date: **7/26/2023** SeqNo: **4506169**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.50	1.00	5.000	0	90.0	70	130				

Sample ID: **LCSD-67011** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/19/2023** RunNo: **167898**
Client ID: **LCSS02** Batch ID: **67011** TestNo: **E903.0** **E903-904** Analysis Date: **7/26/2023** SeqNo: **4506170**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.42	1.00	5.000	0	88.4	70	130	4.500	1.79	20	

Sample ID: **RLC-67011** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/19/2023** RunNo: **167898**
Client ID: **BatchQC** Batch ID: **67011** TestNo: **E903.0** **E903-904** Analysis Date: **7/26/2023** SeqNo: **4506172**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **23070747**

15-Aug-23

Client: TEKLAB Inc,
Project: 23070002 **BatchID:** **67011**

Sample ID: **RLC-67011** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/19/2023** RunNo: **167898**
Client ID: **BatchQC** Batch ID: **67011** TestNo: **E903.0** **E903-904** Analysis Date: **7/26/2023** SeqNo: **4506172**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.07	1.00	1.000	0	107	50	150				

Sample ID: **RLCD-67011** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/19/2023** RunNo: **167898**
Client ID: **BatchQC** Batch ID: **67011** TestNo: **E903.0** **E903-904** Analysis Date: **7/26/2023** SeqNo: **4506173**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00	1.000	0	91.0	50	150				

Sample ID: **23071031-001AMS** SampType: **MS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/19/2023** RunNo: **167898**
Client ID: **BatchQC** Batch ID: **67011** TestNo: **E903.0** **E903-904** Analysis Date: **7/26/2023** SeqNo: **4506174**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.43	1.00	5.000	0	88.6	70	130				

Sample ID: **23071032-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **7/19/2023** RunNo: **167898**
Client ID: **BatchQC** Batch ID: **67011** TestNo: **E903.0** **E903-904** Analysis Date: **7/26/2023** SeqNo: **4506177**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **23070747**

15-Aug-23

Client: TEKLAB Inc,
Project: 23070002 **BatchID:** **67011**

Sample ID: **23071032-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **7/19/2023**	RunNo: **167898**
Client ID: **BatchQC**	Batch ID: **67011**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/26/2023**	SeqNo: **4506177**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Yield	1.00							1.000	0	0	

Sample ID: **23070816-002ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **7/19/2023**	RunNo: **167898**
Client ID: **BatchQC**	Batch ID: **67011**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/26/2023**	SeqNo: **4506179**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **23070747**

15-Aug-23

Client: TEKLAB Inc,
Project: 23070002 **BatchID:** **67083**

Sample ID: **MB-67083**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **7/21/2023**	RunNo: **168035**
Client ID: **PBW**	Batch ID: **67083**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/26/2023**	SeqNo: **4510072**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-67083**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **7/21/2023**	RunNo: **168035**
Client ID: **LCSW**	Batch ID: **67083**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/26/2023**	SeqNo: **4510073**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.91	1.00	5.000	0	78.2	70	130				
Yield	1.00			0	0						

Sample ID: **RLC-67083**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **7/21/2023**	RunNo: **168035**
Client ID: **BatchQC**	Batch ID: **67083**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/26/2023**	SeqNo: **4510076**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00	1.000	0	76.0	50	150				
Yield	1.00			0	0						

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **23070747**

15-Aug-23

Client: TEKLAB Inc,
Project: 23070002 **BatchID:** **67083**

Sample ID: **23071034-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/21/2023** RunNo: **168035**
Client ID: **BatchQC** Batch ID: **67083** TestNo: **E904.0** **E903-904** Analysis Date: **7/26/2023** SeqNo: **4510107**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	2.31	1.00		0	0			2.560	10.3	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **23070747**

15-Aug-23

Client: TEKLAB Inc,
Project: 23070002 **BatchID:** **67083**

Sample ID: **MB-67083**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **7/21/2023**	RunNo: **168045**
Client ID: **PBW**	Batch ID: **67083**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/27/2023**	SeqNo: **4510502**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	0.990										

Sample ID: **LCSD-67083**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **7/21/2023**	RunNo: **168045**
Client ID: **LCSS02**	Batch ID: **67083**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/27/2023**	SeqNo: **4510504**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.56	1.00	5.000	0	111	70	130	6.720	18.9	20	

Sample ID: **RLC-67083**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **7/21/2023**	RunNo: **168045**
Client ID: **BatchQC**	Batch ID: **67083**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/27/2023**	SeqNo: **4510506**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00	1.000	0	75.0	50	150				

Sample ID: **RLCD-67083**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **7/21/2023**	RunNo: **168045**
Client ID: **BatchQC**	Batch ID: **67083**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/27/2023**	SeqNo: **4510507**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **23070747**

15-Aug-23

Client: TEKLAB Inc,
Project: 23070002 **BatchID:** **67083**

Sample ID: **RLCD-67083**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **7/21/2023**	RunNo: **168045**
Client ID: **BatchQC**	Batch ID: **67083**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/27/2023**	SeqNo: **4510507**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.22	1.00	1.000	0	122	50	150				

Sample ID: **23071033-001AMS**	SampType: **MS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **7/21/2023**	RunNo: **168045**
Client ID: **BatchQC**	Batch ID: **67083**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/27/2023**	SeqNo: **4510508**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.44	1.00	5.000	0	109	70	130				

Sample ID: **23071096-002ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **7/21/2023**	RunNo: **168045**
Client ID: **BatchQC**	Batch ID: **67083**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/27/2023**	SeqNo: **4510518**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **23070747**

15-Aug-23

Client: TEKLAB Inc,
Project: 23070002 **BatchID:** **67719**

Sample ID: **23072069-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **8/10/2023** RunNo: **169062**
Client ID: **BatchQC** Batch ID: **67719** TestNo: **E904.0** **E903-904** Analysis Date: **8/14/2023** SeqNo: **4541097**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	30	
Yield	0.970			0	0			0.8900	8.60		

Sample ID: **23072069-002ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **8/10/2023** RunNo: **169062**
Client ID: **BatchQC** Batch ID: **67719** TestNo: **E904.0** **E903-904** Analysis Date: **8/14/2023** SeqNo: **4541099**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.04	1.00		0	0			1.340	25.2	30	
Yield	0.900			0	0			0.8700	3.39		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **23070747**

15-Aug-23

Client: TEKLAB Inc,
Project: 23070002 **BatchID:** **67719**

Sample ID: **MB-67719** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **8/10/2023** RunNo: **169062**
Client ID: **PBW** Batch ID: **67719** TestNo: **E904.0** **E903-904** Analysis Date: **8/14/2023** SeqNo: **4541078**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-67719** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **8/10/2023** RunNo: **169062**
Client ID: **LCSW** Batch ID: **67719** TestNo: **E904.0** **E903-904** Analysis Date: **8/14/2023** SeqNo: **4541079**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.61	1.00	5.000	0	72.2	70	130				
Yield	0.980			0	0						

Sample ID: **LCSD-67719** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **8/10/2023** RunNo: **169062**
Client ID: **LCSS02** Batch ID: **67719** TestNo: **E904.0** **E903-904** Analysis Date: **8/14/2023** SeqNo: **4541080**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.50	1.00	5.000	0	70.0	70	130	3.610	3.09	20	
Yield	1.00			0	0			0.9800	2.02		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **23070747**

15-Aug-23

Client: TEKLAB Inc,
Project: 23070002 **BatchID:** **67719**

Sample ID: **RLC-67719**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/10/2023**	RunNo: **169062**
Client ID: **BatchQC**	Batch ID: **67719**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/14/2023**	SeqNo: **4541082**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00	1.000	0	64.0	50	150				
Yield	1.00			0	0						

Sample ID: **23080067-001AMS**	SampType: **MS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/10/2023**	RunNo: **169062**
Client ID: **BatchQC**	Batch ID: **67719**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/14/2023**	SeqNo: **4541084**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	5.78	1.00	5.000	0	116	70	130				
Yield	1.00			1.000	0						

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Pg ___ of ___ 23070747

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: Sampler: QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium (226, 228, ~~and combined~~) by method EPA903.0/904.0
on standard TAT. Collected in IL SAN 7/10/23

Project# 23070002

Contact: Shelly Hennessy Email: shennessy@teklabinc.com
Requested Due Date: NTAT Billing/PO: 34677 Phone: 618-344-1004 ext. 36

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Changes to analysis/methods must be approved by Teklab, Inc.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226	Radium 228	com=	diff								
	23070002-001	7/6/23 12.23	HNO3	Groundwater	✔	✔	35		1							
	23070002-002	7/7/23 11.08	HNO3	Groundwater	✔	✔	16		1							
	23070002-003	7/7/23 12.31	HNO3	Groundwater	✔	✔	33		1							
	23070002-004	7/7/23 13.16	HNO3	Groundwater	✔	✔	34		1							
	23070002-005	7/7/23 11.42	HNO3	Groundwater	✔	✔	31		1							
	23070002-006	7/7/23 13.12	HNO3	Groundwater	✔	✔	36		1							
	23070002-007	7/6/23 13.30	HNO3	Groundwater	✔	✔	23		1							
	23070002-008	7/7/23 12.23	HNO3	Groundwater	✔	✔	OK		1							
	23070002-009	7/7/23 10.39	HNO3	Groundwater	✔	✔	36		1							
	23070002-010	7/7/23 12.40	HNO3	Groundwater	✔	✔	37		1							
	23070002-011	7/7/23 11.47	HNO3	Groundwater	✔	✔	36		1							

*Relinquished By	Date/Time	Received By	Date/Time
Allison Cole (fedex)	7/10/23	C.Cr	7/12/23 1200
		TWO DOT received, no COA	

23.4+0.0=
23.4
fedex
cooler

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights. Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA
3/2/2016

Pg ___ of 23070747

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: Sampler: QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium (226, 228, and combined) by method EPA903.0/904.0
on standard TAT.

Project# 23070002

Contact: Shelly Hennessy Email: shennessy@teklabinc.com
Requested Due Date: NTAT Billing/PO: 34677 Phone: 618-344-1004 ext. 36

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Changes to analysis/methods must be approved by Teklab, Inc.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226	Radium 228	CDM	pH
	23070002-012	7/7/23 14.34	HNO3	Groundwater	✔	✔	13	7
	23070002-013	7/7/23 14.16	HNO3	Groundwater	✔	✔	32	7
	23070002-014	7/7/23 13.47	HNO3	Groundwater	✔	✔	33	6
	23070002-015	7/7/23 11.21	HNO3	Groundwater	✔	✔	26	6
			HNO3	Groundwater				
			HNO3	Groundwater				
			HNO3	Groundwater				
			HNO3	Groundwater				
			HNO3	Groundwater				
			HNO3	Groundwater				
			HNO3	Groundwater				

*Relinquished By	Date/Time	Received By	Date/Time
Allison Colin (Fedex)	7/10/23		

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA
3/2/2016

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **23070747** RcptNo: **1**

Logged by:	**Christina N. Gemma**	**7/12/2023 12:00:00 PM**	C. Gemma
Completed By:	**Jacqueline Rasile**	**7/13/2023 1:07:43 AM**	
Reviewed By:	**Jennifer Woolf**	**7/13/2023 6:52:05 PM**	Jennifer Woolf

Chain of Custody

1.	Were seals intact?	Yes ☑	No ☐	Not Present ☐
2.	Is Chain of Custody complete?	Yes ☐	No ☑	Not Present ☐
3.	How was the sample delivered?	FedEx		

Log In

4.	Coolers are present?	Yes ☑	No ☐	NA ☐
5.	Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☐	NA ☑
7.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
8.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
9.	Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
10.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
11.	Is the headspace in the VOA vials less than 1/4 inch or 6 mm?	Yes ☐	No ☐	No VOA Vials ☑
12.	Were any sample containers received broken?	Yes ☐	No ☑	
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
14.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
15.	Is it clear what analyses were requested?	Yes ☑	No ☐	
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

confirmed with clinet second bottle labled -001 is the -004 bottle
Two 001 bottles rec'd, no 004 bottle.

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	23.4	Good	Not Present			

October 2023 Laboratory Analytical Report

November 27, 2023

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 23101164

Dear Eric Staley:

TEKLAB, INC received 15 samples on 10/25/2023 5:15:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 23101164
Report Date: 27-Nov-23

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	22
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 23101164

Client Project: Ash Pond Monitoring Wells **Report Date:** 27-Nov-23

Abbr Definition

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power

Work Order: 23101164

Client Project: Ash Pond Monitoring Wells

Report Date: 27-Nov-23

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 23101164
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Nov-23

Cooler Receipt Temp: 4.8 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 & Radium-228 analyses were performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 23101164
Report Date: 27-Nov-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: City Water, Light & Power **Work Order:** 23101164

Client Project: Ash Pond Monitoring Wells **Report Date:** 27-Nov-23

Lab ID: 23101164-001 **Client Sample ID:** RW-3

Matrix: GROUNDWATER **Collection Date:** 10/25/2023 12:34

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	10/25/2023 12:34	R338505
Depth to water	*	-5.00		**9.09**	ft	1	10/25/2023 12:34	R338505
Depth to water from measuring point	*	0		**11.79**	ft	1	10/25/2023 12:34	R338505
Elevation of groundwater surface	*	0		**527.71**	ft	1	10/25/2023 12:34	R338505
Measuring Point Elevation	*	0		**539.50**	ft	1	10/25/2023 12:34	R338505
Measuring Point Height Above Land Surface	*	0		**2.70**	ft	1	10/25/2023 12:34	R338505
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.6**	NTU	1	10/25/2023 12:34	R338505
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.3**	°F	1	10/25/2023 12:34	R338505
SW-846 9040B								
pH, Field	*	1.00		**7.31**		1	10/25/2023 12:34	R338505
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**632**	µmhos/cm @25C	1	10/25/2023 12:34	R338505
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	100		**340**	mg/L	5	10/30/2023 11:49	R338538
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**16**	mg/L	1	10/27/2023 19:42	R338425
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.44**	mg/L	1	11/02/2023 14:55	R338693
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**31**	mg/L	1	10/27/2023 19:41	R338455
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.165**	mg/L	1	11/02/2023 10:47	213836
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/02/2023 10:47	213836
Boron	NELAP	0.0200		**0.117**	mg/L	1	11/02/2023 10:47	213836
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/02/2023 10:47	213836
Calcium	NELAP	0.100		**58.7**	mg/L	1	11/02/2023 10:47	213836
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/02/2023 10:47	213836
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/02/2023 10:47	213836
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	11/02/2023 10:47	213836
Lithium	NELAP	0.0050		**0.0147**	mg/L	1	11/02/2023 10:47	213836
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/02/2023 10:47	213836
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/02/2023 19:03	213836
Arsenic	NELAP	0.0010		**0.740**	mg/L	5	11/02/2023 19:03	213836
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/02/2023 19:03	213836
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/02/2023 19:03	213836
PQL recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	10/31/2023 13:26	213968
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	11/10/2023 0:00	R339727
Radium-228	*	0		**See Attached**	pci/L	1	11/10/2023 0:00	R339727

Client: City Water, Light & Power **Work Order:** 23101164

Client Project: Ash Pond Monitoring Wells **Report Date:** 27-Nov-23

Lab ID: 23101164-002 **Client Sample ID:** AP-1

Matrix: GROUNDWATER **Collection Date:** 10/26/2023 12:22

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**504.29**	ft	1	10/26/2023 12:22	R338505
Depth to water	*	-5.00		**9.15**	ft	1	10/26/2023 12:22	R338505
Depth to water from measuring point	*	0		**11.42**	ft	1	10/26/2023 12:22	R338505
Elevation of groundwater surface	*	0		**523.95**	ft	1	10/26/2023 12:22	R338505
Measuring Point Elevation	*	0		**535.37**	ft	1	10/26/2023 12:22	R338505
Measuring Point Height Above Land Surface	*	0		**2.27**	ft	1	10/26/2023 12:22	R338505
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**12**	NTU	1	10/26/2023 12:22	R338505
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.7**	°F	1	10/26/2023 12:22	R338505
SW-846 9040B								
pH, Field	*	1.00		**6.71**		1	10/26/2023 12:22	R338505
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1710**	µmhos/cm @25C	1	10/26/2023 12:22	R338505
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1360**	mg/L	2.5	10/31/2023 10:18	R338603
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**740**	mg/L	20	10/30/2023 13:41	R338498
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.26**	mg/L	1	11/02/2023 13:54	R338693
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**53**	mg/L	2	11/01/2023 13:44	R338688
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.262**	mg/L	1	10/31/2023 17:39	213879
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	10/31/2023 17:39	213879
Boron	NELAP	0.200		**21.7**	mg/L	10	11/01/2023 13:01	213879
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	10/31/2023 17:39	213879
Calcium	NELAP	0.100		**229**	mg/L	1	10/31/2023 17:39	213879
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 17:39	213879
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 17:39	213879
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	10/31/2023 17:39	213879
Lithium	NELAP	0.0050		**0.0085**	mg/L	1	10/31/2023 17:39	213879
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	10/31/2023 17:39	213879
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 9:31	213879
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 9:31	213879
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 9:31	213879
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/01/2023 9:31	213879
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	10/31/2023 14:41	213968
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	11/10/2023 0:00	R339727
Radium-228	*	0		**See Attached**	pci/L	1	11/10/2023 0:00	R339727

Client: City Water, Light & Power
Work Order: 23101164
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Nov-23
Lab ID: 23101164-003
Client Sample ID: AP-2
Matrix: GROUNDWATER
Collection Date: 10/26/2023 13:05

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.77**	ft	1	10/26/2023 13:05	R338505
Depth to water	*	-5.00		**6.20**	ft	1	10/26/2023 13:05	R338505
Depth to water from measuring point	*	0		**8.70**	ft	1	10/26/2023 13:05	R338505
Elevation of groundwater surface	*	0		**527.40**	ft	1	10/26/2023 13:05	R338505
Measuring Point Elevation	*	0		**536.10**	ft	1	10/26/2023 13:05	R338505
Measuring Point Height Above Land Surface	*	0		**2.50**	ft	1	10/26/2023 13:05	R338505
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**15**	NTU	1	10/26/2023 13:05	R338505
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.9**	°F	1	10/26/2023 13:05	R338505
SW-846 9040B								
pH, Field	*	1.00		**6.57**		1	10/26/2023 13:05	R338505
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1380**	µmhos/cm @25C	1	10/26/2023 13:05	R338505
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1020**	mg/L	1	10/31/2023 10:25	R338603
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**380**	mg/L	20	10/30/2023 13:50	R338498
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.27**	mg/L	1	11/02/2023 14:58	R338693
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**40**	mg/L	2	10/30/2023 13:44	R338509
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0716**	mg/L	1	10/31/2023 17:43	213879
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	10/31/2023 17:43	213879
Boron	NELAP	0.0200		**3.23**	mg/L	1	10/31/2023 17:43	213879
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	10/31/2023 17:43	213879
Calcium	NELAP	0.100		**204**	mg/L	1	10/31/2023 17:43	213879
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 17:43	213879
Cobalt	NELAP	0.0050		**0.0091**	mg/L	1	10/31/2023 17:43	213879
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	10/31/2023 17:43	213879
Lithium	NELAP	0.0050		**0.0056**	mg/L	1	10/31/2023 17:43	213879
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	10/31/2023 17:43	213879
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 10:52	213879
Arsenic	NELAP	0.0010		**0.0020**	mg/L	5	11/01/2023 10:52	213879
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 10:52	213879
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/01/2023 10:52	213879
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	10/31/2023 14:43	213968
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	11/10/2023 0:00	R339727
Radium-228	*	0		**See Attached**	pci/L	1	11/10/2023 0:00	R339727

Client: City Water, Light & Power **Work Order:** 23101164

Client Project: Ash Pond Monitoring Wells **Report Date:** 27-Nov-23

Lab ID: 23101164-004 **Client Sample ID:** AP-3

Matrix: GROUNDWATER **Collection Date:** 10/26/2023 13:25

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.45**	ft	1	10/26/2023 13:25	R338505
Depth to water	*	-5.00		**8.39**	ft	1	10/26/2023 13:25	R338505
Depth to water from measuring point	*	0		**10.09**	ft	1	10/26/2023 13:25	R338505
Elevation of groundwater surface	*	0		**525.31**	ft	1	10/26/2023 13:25	R338505
Measuring Point Elevation	*	0		**535.40**	ft	1	10/26/2023 13:25	R338505
Measuring Point Height Above Land Surface	*	0		**1.70**	ft	1	10/26/2023 13:25	R338505
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**11**	NTU	1	10/26/2023 13:25	R338505
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**64.8**	°F	1	10/26/2023 13:25	R338505
SW-846 9040B								
pH, Field	*	1.00		**6.69**		1	10/26/2023 13:25	R338505
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1290**	µmhos/cm @25C	1	10/26/2023 13:25	R338505
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1080**	mg/L	2.5	10/31/2023 10:26	R338603
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**495**	mg/L	20	11/02/2023 12:38	R338709
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.25**	mg/L	1	11/02/2023 14:02	R338693
SW-846 9251 (TOTAL)								
Chloride	NELAP	8	S	**57**	mg/L	2	10/30/2023 14:08	R338509
Matrix spike did not recover within control limits due to matrix interference.								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.113**	mg/L	1	10/31/2023 17:46	213879
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	10/31/2023 17:46	213879
Boron	NELAP	0.0200		**15.2**	mg/L	1	10/31/2023 17:46	213879
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	10/31/2023 17:46	213879
Calcium	NELAP	0.100		**181**	mg/L	1	10/31/2023 17:46	213879
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 17:46	213879
Cobalt	NELAP	0.0050		**0.0051**	mg/L	1	10/31/2023 17:46	213879
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	10/31/2023 17:46	213879
Lithium	NELAP	0.0050		**0.0051**	mg/L	1	10/31/2023 17:46	213879
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	10/31/2023 17:46	213879
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 10:58	213879
Arsenic	NELAP	0.0010		**0.0182**	mg/L	5	11/01/2023 10:58	213879
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 10:58	213879
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/01/2023 10:58	213879
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	10/31/2023 14:45	213968
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	11/10/2023 0:00	R339727
Radium-228	*	0		**See Attached**	pci/L	1	11/10/2023 0:00	R339727

Client: City Water, Light & Power
Work Order: 23101164
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Nov-23
Lab ID: 23101164-005
Client Sample ID: AP-4
Matrix: GROUNDWATER
Collection Date: 10/26/2023 14:06

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**492.46**	ft	1	10/26/2023 14:06	R338505
Depth to water	*	-5.00		**7.65**	ft	1	10/26/2023 14:06	R338505
Depth to water from measuring point	*	0		**10.79**	ft	1	10/26/2023 14:06	R338505
Elevation of groundwater surface	*	0		**544.81**	ft	1	10/26/2023 14:06	R338505
Measuring Point Elevation	*	0		**555.60**	ft	1	10/26/2023 14:06	R338505
Measuring Point Height Above Land Surface	*	0		**3.14**	ft	1	10/26/2023 14:06	R338505
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.8**	NTU	1	10/26/2023 14:06	R338505
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**66.4**	°F	1	10/26/2023 14:06	R338505
SW-846 9040B								
pH, Field	*	1.00		**6.99**		1	10/26/2023 14:06	R338505
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**866**	µmhos/cm @25C	1	10/26/2023 14:06	R338505
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**420**	mg/L	2.5	10/31/2023 10:26	R338603
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	10/30/2023 14:29	R338498
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.16**	mg/L	1	11/02/2023 15:00	R338693
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**14**	mg/L	1	10/30/2023 14:29	R338509
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.381**	mg/L	1	10/31/2023 17:50	213879
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	10/31/2023 17:50	213879
Boron	NELAP	0.0200		**0.0841**	mg/L	1	11/01/2023 12:57	213879
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	10/31/2023 17:50	213879
Calcium	NELAP	0.100		**118**	mg/L	1	10/31/2023 17:50	213879
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 17:50	213879
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 17:50	213879
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	10/31/2023 17:50	213879
Lithium	NELAP	0.0050		**0.0051**	mg/L	1	10/31/2023 17:50	213879
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	10/31/2023 17:50	213879
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 11:03	213879
Arsenic	NELAP	0.0010		**0.0225**	mg/L	5	11/01/2023 11:03	213879
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 11:03	213879
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/01/2023 11:03	213879
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	10/31/2023 14:47	213968
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	11/10/2023 0:00	R339727
Radium-228	*	0		**See Attached**	pci/L	1	11/10/2023 0:00	R339727

Client: City Water, Light & Power
Work Order: 23101164
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Nov-23
Lab ID: 23101164-006
Client Sample ID: AP-5
Matrix: GROUNDWATER
Collection Date: 10/26/2023 14:44

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**552.63**	ft	1	10/26/2023 14:44	R338505
Depth to water	*	-5.00		**15.87**	ft	1	10/26/2023 14:44	R338505
Depth to water from measuring point	*	0		**18.17**	ft	1	10/26/2023 14:44	R338505
Elevation of groundwater surface	*	0		**565.73**	ft	1	10/26/2023 14:44	R338505
Measuring Point Elevation	*	0		**583.90**	ft	1	10/26/2023 14:44	R338505
Measuring Point Height Above Land Surface	*	0		**2.30**	ft	1	10/26/2023 14:44	R338505
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**2.0**	NTU	1	10/26/2023 14:44	R338505
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.9**	°F	1	10/26/2023 14:44	R338505
SW-846 9040B								
pH, Field	*	1.00		**7.17**		1	10/26/2023 14:44	R338505
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**653**	µmhos/cm @25C	1	10/26/2023 14:44	R338505
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**396**	mg/L	1	10/31/2023 10:26	R338603
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**45**	mg/L	1	10/30/2023 14:38	R338498
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.37**	mg/L	1	11/02/2023 16:05	R338693
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**5**	mg/L	1	10/30/2023 14:37	R338509
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0471**	mg/L	1	10/31/2023 18:12	213879
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	10/31/2023 18:12	213879
Boron	NELAP	0.0200		**0.0455**	mg/L	1	10/31/2023 18:12	213879
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	10/31/2023 18:12	213879
Calcium	NELAP	0.100		**90.7**	mg/L	1	10/31/2023 18:12	213879
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 18:12	213879
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 18:12	213879
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	10/31/2023 18:12	213879
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 18:12	213879
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	10/31/2023 18:12	213879
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 11:37	213879
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 11:37	213879
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 11:37	213879
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/01/2023 11:37	213879
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	10/31/2023 14:50	213968
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	11/10/2023 0:00	R339727
Radium-228	*	0		**See Attached**	pci/L	1	11/10/2023 0:00	R339727

Client: City Water, Light & Power
Work Order: 23101164
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Nov-23
Lab ID: 23101164-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 10/26/2023 9:09

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.20**	ft	1	10/26/2023 9:09	R338505
Depth to water	*	-5.00		**7.64**	ft	1	10/26/2023 9:09	R338505
Depth to water from measuring point	*	0		**10.06**	ft	1	10/26/2023 9:09	R338505
Elevation of groundwater surface	*	0		**527.76**	ft	1	10/26/2023 9:09	R338505
Measuring Point Elevation	*	0		**537.82**	ft	1	10/26/2023 9:09	R338505
Measuring Point Height Above Land Surface	*	0		**2.42**	ft	1	10/26/2023 9:09	R338505
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**9.5**	NTU	1	10/26/2023 9:09	R338505
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.4**	°F	1	10/26/2023 9:09	R338505
SW-846 9040B								
pH, Field	*	1.00		**7.17**		1	10/26/2023 9:09	R338505
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**609**	µmhos/cm @25C	1	10/26/2023 9:09	R338505
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**322**	mg/L	1	10/31/2023 12:05	R338603
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**13**	mg/L	1	10/30/2023 15:01	R338498
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.50**	mg/L	1	11/02/2023 15:01	R338693
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**33**	mg/L	1	10/30/2023 15:01	R338509
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.160**	mg/L	1	10/31/2023 17:54	213879
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	10/31/2023 17:54	213879
Boron	NELAP	0.0200		**0.214**	mg/L	1	10/31/2023 17:54	213879
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	10/31/2023 17:54	213879
Calcium	NELAP	0.100		**65.8**	mg/L	1	10/31/2023 17:54	213879
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 17:54	213879
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 17:54	213879
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	10/31/2023 17:54	213879
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 17:54	213879
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	10/31/2023 17:54	213879
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 11:09	213879
Arsenic	NELAP	0.0010		**0.0183**	mg/L	5	11/01/2023 11:09	213879
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 11:09	213879
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/01/2023 11:09	213879
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	10/31/2023 14:57	213968
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	11/10/2023 0:00	R339727
Radium-228	*	0		**See Attached**	pci/L	1	11/10/2023 0:00	R339727

Client: City Water, Light & Power **Work Order:** 23101164

Client Project: Ash Pond Monitoring Wells **Report Date:** 27-Nov-23

Lab ID: 23101164-008 **Client Sample ID:** AP-7

Matrix: GROUNDWATER **Collection Date:** 10/26/2023 13:58

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**496.50**	ft	1	10/26/2023 13:58	R338505
Depth to water	*	-5.00		**9.79**	ft	1	10/26/2023 13:58	R338505
Depth to water from measuring point	*	0		**12.45**	ft	1	10/26/2023 13:58	R338505
Elevation of groundwater surface	*	0		**526.57**	ft	1	10/26/2023 13:58	R338505
Measuring Point Elevation	*	0		**539.02**	ft	1	10/26/2023 13:58	R338505
Measuring Point Height Above Land Surface	*	0		**2.66**	ft	1	10/26/2023 13:58	R338505
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**7.8**	NTU	1	10/26/2023 13:58	R338505
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.1**	°F	1	10/26/2023 13:58	R338505
SW-846 9040B								
pH, Field	*	1.00		**7.15**		1	10/26/2023 13:58	R338505
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**478**	µmhos/cm @25C	1	10/26/2023 13:58	R338505
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**352**	mg/L	1	10/31/2023 12:06	R338603
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**15**	mg/L	1	10/30/2023 15:04	R338498
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.53**	mg/L	1	11/02/2023 13:57	R338693
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**60**	mg/L	2	11/01/2023 14:16	R338688
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.158**	mg/L	1	10/31/2023 18:23	213879
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	10/31/2023 18:23	213879
Boron	NELAP	0.0200		**0.331**	mg/L	1	10/31/2023 18:23	213879
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	10/31/2023 18:23	213879
Calcium	NELAP	0.100		**50.6**	mg/L	1	10/31/2023 18:23	213879
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 18:23	213879
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 18:23	213879
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	10/31/2023 18:23	213879
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 18:23	213879
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	10/31/2023 18:23	213879
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 12:17	213879
Arsenic	NELAP	0.0010		**0.0750**	mg/L	5	11/01/2023 12:17	213879
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 12:17	213879
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/01/2023 12:17	213879
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	10/31/2023 14:59	213968
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	11/10/2023 0:00	R339727
Radium-228	*	0		**See Attached**	pci/L	1	11/10/2023 0:00	R339727

Client: City Water, Light & Power
Work Order: 23101164
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Nov-23
Lab ID: 23101164-009
Client Sample ID: AP-8
Matrix: GROUNDWATER
Collection Date: 10/26/2023 9:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.60**	ft	1	10/26/2023 9:30	R338505
Depth to water	*	-5.00		**5.17**	ft	1	10/26/2023 9:30	R338505
Depth to water from measuring point	*	0		**8.07**	ft	1	10/26/2023 9:30	R338505
Elevation of groundwater surface	*	0		**529.13**	ft	1	10/26/2023 9:30	R338505
Measuring Point Elevation	*	0		**537.20**	ft	1	10/26/2023 9:30	R338505
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	10/26/2023 9:30	R338505
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**9.1**	NTU	1	10/26/2023 9:30	R338505
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.4**	°F	1	10/26/2023 9:30	R338505
SW-846 9040B								
pH, Field	*	1.00		**7.01**		1	10/26/2023 9:30	R338505
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**926**	µmhos/cm @25C	1	10/26/2023 9:30	R338505
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**430**	mg/L	2.5	10/31/2023 12:06	R338603
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	10/30/2023 15:06	R338498
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.31**	mg/L	1	11/02/2023 15:04	R338693
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**25**	mg/L	1	10/30/2023 15:07	R338509
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.374**	mg/L	1	10/31/2023 18:27	213879
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	10/31/2023 18:27	213879
Boron	NELAP	0.0200		**0.0896**	mg/L	1	10/31/2023 18:27	213879
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	10/31/2023 18:27	213879
Calcium	NELAP	0.100		**101**	mg/L	1	10/31/2023 18:27	213879
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 18:27	213879
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 18:27	213879
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	10/31/2023 18:27	213879
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 18:27	213879
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	10/31/2023 18:27	213879
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 12:23	213879
Arsenic	NELAP	0.0010		**0.0395**	mg/L	5	11/01/2023 12:23	213879
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 12:23	213879
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/01/2023 12:23	213879
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	10/31/2023 15:01	213968
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	11/10/2023 0:00	R339727
Radium-228	*	0		**See Attached**	pci/L	1	11/10/2023 0:00	R339727

Client: City Water, Light & Power
Work Order: 23101164
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Nov-23
Lab ID: 23101164-011
Client Sample ID: AP-10
Matrix: GROUNDWATER
Collection Date: 10/26/2023 12:43

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**499.43**	ft	1	10/26/2023 12:43	R338505
Depth to water	*	-5.00		**3.47**	ft	1	10/26/2023 12:43	R338505
Depth to water from measuring point	*	0		**6.57**	ft	1	10/26/2023 12:43	R338505
Elevation of groundwater surface	*	0		**530.93**	ft	1	10/26/2023 12:43	R338505
Measuring Point Elevation	*	0		**537.50**	ft	1	10/26/2023 12:43	R338505
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	10/26/2023 12:43	R338505
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**12**	NTU	1	10/26/2023 12:43	R338505
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.8**	°F	1	10/26/2023 12:43	R338505
SW-846 9040B								
pH, Field	*	1.00		**6.82**		1	10/26/2023 12:43	R338505
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1180**	µmhos/cm @25C	1	10/26/2023 12:43	R338505
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**732**	mg/L	1	10/31/2023 12:06	R338603
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**91**	mg/L	5	10/30/2023 15:17	R338498
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.35**	mg/L	1	11/02/2023 15:16	R338693
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**27**	mg/L	5	10/30/2023 15:17	R338509
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.583**	mg/L	1	10/31/2023 18:34	213879
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	10/31/2023 18:34	213879
Boron	NELAP	0.0200		**3.60**	mg/L	1	10/31/2023 18:34	213879
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	10/31/2023 18:34	213879
Calcium	NELAP	0.100	S	**138**	mg/L	1	10/31/2023 18:34	213879
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 18:34	213879
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 18:34	213879
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	10/31/2023 18:34	213879
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 18:34	213879
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	10/31/2023 18:34	213879
Matrix spike control limits are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 12:56	213879
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 12:56	213879
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 12:56	213879
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/01/2023 12:56	213879
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	10/31/2023 15:10	213968
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	11/10/2023 0:00	R339727
Radium-228	*	0		**See Attached**	pci/L	1	11/10/2023 0:00	R339727

Client: City Water, Light & Power
Work Order: 23101164
Client Project: Ash Pond Monitoring Wells
Report Date: 27-Nov-23
Lab ID: 23101164-015
Client Sample ID: AP-14
Matrix: GROUNDWATER
Collection Date: 10/26/2023 13:51

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**508.40**	ft	1	10/26/2023 13:51	R338505
Depth to water	*	-5.00		**0.92**	ft	1	10/26/2023 13:51	R338505
Depth to water from measuring point	*	0		**3.72**	ft	1	10/26/2023 13:51	R338505
Elevation of groundwater surface	*	0		**535.88**	ft	1	10/26/2023 13:51	R338505
Measuring Point Elevation	*	0		**539.60**	ft	1	10/26/2023 13:51	R338505
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	10/26/2023 13:51	R338505
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**6.9**	NTU	1	10/26/2023 13:51	R338505
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.7**	°F	1	10/26/2023 13:51	R338505
SW-846 9040B								
pH, Field	*	1.00		**7.06**		1	10/26/2023 13:51	R338505
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1740**	µmhos/cm @25C	1	10/26/2023 13:51	R338505
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1440**	mg/L	1	10/31/2023 12:12	R338603
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**806**	mg/L	20	10/30/2023 16:13	R338498
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.29**	mg/L	1	11/02/2023 15:22	R338693
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**89**	mg/L	5	10/30/2023 16:08	R338509
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0636**	mg/L	1	10/31/2023 19:11	213879
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	10/31/2023 19:11	213879
Boron	NELAP	0.200		**22.1**	mg/L	10	11/01/2023 13:04	213879
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	10/31/2023 19:11	213879
Calcium	NELAP	0.100		**278**	mg/L	1	10/31/2023 19:11	213879
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 19:11	213879
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 19:11	213879
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	10/31/2023 19:11	213879
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	10/31/2023 19:11	213879
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	10/31/2023 19:11	213879
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 12:51	213879
Arsenic	NELAP	0.0010		**0.0036**	mg/L	5	11/01/2023 12:51	213879
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/01/2023 12:51	213879
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/01/2023 12:51	213879
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/01/2023 10:28	214005
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	11/14/2023 0:00	R339727
Radium-228	*	0		**See Attached**	pci/L	1	11/14/2023 0:00	R339727

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 23101164
Report Date: 27-Nov-23

Carrier: Justin Colp
Received By: HAW

Completed by: Timothy W. Mathis
On: 26-Oct-23

Reviewed by: Ellie Hopkins
On: 27-Oct-23

Pages to follow: Chain of custody 3 Extra pages included 57

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	4.8	
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐	
Chain of custody present?	Yes ☑	No ☐				
Chain of custody signed when relinquished and received?	Yes ☑	No ☐				
Chain of custody agrees with sample labels?	Yes ☑	No ☐				
Samples in proper container/bottle?	Yes ☑	No ☐				
Sample containers intact?	Yes ☑	No ☐				
Sufficient sample volume for indicated test?	Yes ☑	No ☐				
All samples received within holding time?	Yes ☑	No ☐				
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐			
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐				
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.						
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑			
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑			
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐			
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑			

Any No responses must be detailed below or on the COC.

pH strip #90719 CET. - TMathis - 10/26/2023 12:47:39 PM

pH strip #90719. - amberdilallo - 10/27/2023 9:49:59 AM

Samples collected on 10/26/23 were delivered to the laboratory on 10/26/23 at 1707 (on ice - 2.6C - LTG1). - HW/ERH 10/27/23

Print PDF

CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 23101164

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [x] ICE [ ] BLUE ICE [ ] NO ICE 4.8 °C CTL
Preserved in: [ ] LAB [x] FIELD FOR LAB USE ONLY
LAB NOTES: pH 9079-485 10-26-23
*TE SM 11/6/23

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [x] No
Are these samples known to be hazardous? [ ] Yes [x] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [x] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Colp

RESULTS REQUESTED
[x] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other ____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
23101164-001	RW-3	10-25-23 / 1235* 1234*	Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	AP-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	AP-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	AP-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	AP-4		Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	AP-5		Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	AP-6		Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	AP-7		Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AP-8		Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AP-9		Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	AP-10		Groundwater	1	2								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
J. Colp	10-25-23 1715	[signature]	10/25/23 1715

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

CTL 10-21-23

Print PDF

CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 23101164

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 2 cl °C
Preserved in: ☐ LAB ☒ FIELD FOR LAB USE ONLY
LAB NOTES: 9079 10/27/23
XTE SAH 11/6/23

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Gb

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
23101164-001	RW-3		Groundwater	1	2								✔	✔	✔	✔	✔	✔
002	AP-1	10-26-23/ 1222	Groundwater	1	2								✔	✔	✔	✔	✔	✔
003	AP-2	1305	Groundwater	1	2								✔	✔	✔	✔	✔	✔
004	AP-3	* 133525	Groundwater	1	2								✔	✔	✔	✔	✔	✔
005	AP-4	1406	Groundwater	1	2								✔	✔	✔	✔	✔	✔
006	AP-5	1444	Groundwater	1	2								✔	✔	✔	✔	✔	✔
007	AP-6	0909	Groundwater	1	2								✔	✔	✔	✔	✔	✔
008	AP-7	10-26-23/ 1358	Groundwater	1	2								✔	✔	✔	✔	✔	✔
009	AP-8	10-26-23/ 0930	Groundwater	1	2								✔	✔	✔	✔	✔	✔
010	AP-9	10-26-23/ 1446	Groundwater	1	2								✔	✔	✔	✔	✔	✔
011	AP-10	10-26-23/ 1243	Groundwater	1	2								✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
	10-26-23 17:07	Hannah NA	10/26/23 1707

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 23101164

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Gp

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
23101164-012	AP-11	10-26-23 / 1152	Groundwater	1	2								✔	✔	✔	✔	✔	✔
013	AP-12	1120	Groundwater	1	2								✔	✔	✔	✔	✔	✔
014	AP-13	1033	Groundwater	1	2								✔	✔	✔	✔	✔	✔
015	AP-14	1351	Groundwater	1	2								✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
[signature]	10.26.23 17:05	[signature]	10/26/23 1707

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101164
Technician(s): JC, BG

Groundwater Sampling Summary
CWLP- 4Q 2023

			Weather				Well Condition				
WO Sample	**Well ID**	**Program/ Sample Type**	**Temp (°F)**	**Precipitation**	**Wind Direction**	**Sky**	**Well Pad**	**Casing**	**Protective Cover**	**Reference Mark/ ID**	**Well Locked**
001	RW-3	Groundwater Sample	70.0	None	S	Clear	Good	Good	Good	No	No
002	AP-1	Groundwater Sample	72.0	Light	S	Cloudy	Good	Good	Good	No	No
003	AP-2	Groundwater Sample	72.0	Light	S	Partly cloudy	Good	Good	Good	No	No
004	AP-3	Groundwater Sample	71.0	Light	S	Partly cloudy	Good	Good	Good	No	No
005	AP-4	Groundwater Sample	71.0	None	S	Partly cloudy	Good	Good	Good	Yes	No
006	AP-5	Groundwater Sample	71.0	Light	S	Partly cloudy	Good	Good	Good	Yes	No
007	AP-6	Groundwater Sample	66.0	None	S	Partly cloudy	Good	Good	Good	No	No
008	AP-7	Groundwater Sample	71.0	Light	S	Cloudy	Good	Good	Good	Yes	No
009	AP-8	Groundwater Sample	66.0	None	S	Partly cloudy	Good	Good	Good	Yes	No
010	AP-9	Groundwater Sample	71.0	Light	S	Cloudy	Good	Good	Good	Yes	No
011	AP-10	Groundwater Sample	72.0	Light	S	Partly cloudy	Good	Good	Good	No	No
012	AP-11	Groundwater Sample	71.0	None	S	Cloudy	Good	Good	Good	No	No
013	AP-12	Groundwater Sample	70.0	None	S	Partly cloudy	Good	Good	Good	No	No
014	AP-13	Groundwater Sample	67.0	None	S	Partly cloudy	Good	Good	Good	Yes	No
015	AP-14	Groundwater Sample	71.0	None	S	Partly cloudy	Good	Good	Good	No	No

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101164
Technician(s): JC, BG

Groundwater Sampling Summary
CWLP- 4Q 2023

		GW Level Measurement				Purge Activities							
WO Sample	**Well ID**	**Sampler Initials**	**Date/Time**	**DTW (ft)**	**DTB (ft)**	**Sampler Initials**	**Purge Date**			**Sampling Device**	**Well Diameter (in)**	**Actual Volume Purged (L)**	**Purge Rate (mL/min)**
001	RW-3	BG	10/26/23 12:26	11.79	44.01	BG	10/25/2023	12:24	12:35	Bladder Pump	2"	2.0	181.8
002	AP-1	BG	10/26/23 12:12	11.42	31.08	BG	10/26/2023	12:12	12:22	Bladder Pump	2"	3.0	300.0
003	AP-2	BG	10/26/23 12:52	8.70	21.33	BG	10/26/2023	12:52	13:05	Bladder Pump	2"	2.5	192.3
004	AP-3	BG	10/26/23 13:12	10.09		BG	10/26/2023	13:12	13:35	Bladder Pump	2"	2.0	87.0
005	AP-4	BG	10/26/23 13:57	10.79	60.41	BG	10/26/2023	13:57	14:06	Bladder Pump	2"	2.0	222.2
006	AP-5	BG	10/26/23 14:33	18.17	31.27	BG	10/26/2023	13:32	14:44	Bladder Pump	2"	4.0	55.6
007	AP-6	BG	10/26/23 8:57	10.06	39.62	BG	10/26/2023	08:58	09:09	Submersible Pump	2"	1.7	154.5
008	AP-7	TAC	10/26/23 13:35	12.45	42.52	TAC	10/26/2023	13:12	13:58	Bladder Pump	2"	3.5	76.1
009	AP-8	BG	10/26/23 9:18	8.07	39.60	BG	10/26/2023	09:20	09:30	Submersible Pump	2"	2.0	200.0
010	AP-9	TAC	10/26/23 14:26	13.87	39.60	TAC	10/26/2023	14:30	14:46	Submersible Pump	2"	2.5	156.2
011	AP-10	BG	10/26/23 12:30	6.57	38.07	BG	10/26/2023	12:30	12:43	Submersible Pump	2"	4.0	307.7
012	AP-11	BG	10/26/23 11:30	15.96	22.95	BG	10/26/2023	11:30	11:52	Submersible Pump	2"	6.0	272.7
013	AP-12	BG	10/26/23 10:43	18.44	30.40	BG	10/26/2023	10:43	11:20	Submersible Pump	2"	8.5	229.7
014	AP-13	BG	10/26/23 9:58	19.88	31.00	BG	10/26/2023	09:59	10:33	Submersible Pump	2"	9.5	279.4
015	AP-14	BG	10/26/23 13:37	3.72	31.20	BG	10/26/2023	13:38	13:51	Submersible Pump	2"	5.0	384.6

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101164
Technician(s): JC, BG

Groundwater Sampling Summary
CWLP- 4Q 2023

WO Sample	Well ID	Sampling Activities and Observations									
		Sampler Initials	Date	Sample Time	Sampling Method	Field Filtered	Appearance	Odor	Color	Post-Sample DTW (ft)	Drawdown (ft)
001	RW-3	bg	10/25/23	12:34	Low Flow	Yes	Clear	Slight	CLEAR	14.45	**2.66**
002	AP-1	BG	10/26/23	12:22	Low Flow	No	Clear	None	CLEAR	11.69	0.27
003	AP-2	BG	10/26/23	13:05	Low Flow	No	Clear	None	clear	8.82	0.12
004	AP-3	BG	10/26/23	13:25	Low Flow	No	Clear	Slight	Clear	10.43	0.34
005	AP-4	BG	10/26/23	14:06	Low Flow	No	Clear	Slight	Clear	11.11	0.32
006	AP-5	BG	10/26/23	14:44	Low Flow	No	Clear	None	Clear	20.72	**2.55**
007	AP-6	BG	10/26/23	09:09	Low Flow	No	Clear	Slight	clear	12.07	**2.01**
008	AP-7	TAC	10/26/23	13:58	Low Flow	No	Clear	None	None	14.42	**1.97**
009	AP-8	BG	10/26/23	09:30	Low Flow	No	Clear	None	CLEAR	8.54	0.47
010	AP-9	TAC	10/26/23	14:46	Low Flow	No	Clear	None	None	13.87	0.00
011	AP-10	BG	10/26/23	12:43	Low Flow	No	Clear	Slight	clear	6.23	-0.34
012	AP-11	BG	10/26/23	11:52	Low Flow	No	Clear	Slight	clear	16.46	0.50
013	AP-12	BG	10/26/23	11:20	Low Flow	No	Cloudy	Slight	Gray	19.44	**1.00**
014	AP-13	BG	10/26/23	10:33	Low Flow	No	Cloudy	Moderate	Gray	21.27	**1.39**
015	AP-14	BG	10/26/23	13:51	Low Flow	No	Clear	None	Clear	3.60	-0.12

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101164
Technician(s): JC, BG

Groundwater Sampling Summary
CWLP- 4Q 2023

WO Sample	Well ID	COMMENTS
001	RW-3	GW Level measurement time should be 1226 not 1504. logged this in the worng column
002	AP-1	
003	AP-2	
004	AP-3	
005	AP-4	
006	AP-5	
007	AP-6	
008	AP-7	
009	AP-8	
010	AP-9	
011	AP-10	
012	AP-11	
013	AP-12	
014	AP-13	
015	AP-14	

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101164
Technician(s): JC, BG

Stabilized Field Parameters Summary
CWLP- 4Q 2023

Well ID	Date	Time	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	DTB (ft)	DTW (ft)	LIMS ID
RW-3	10/25/2023	12:34	15.7	60.3	7.31	632.4	1.39	8.6	-125.8	44.01	11.79	23101164-001A
AP-1	10/26/2023	12:22	15.4	59.7	6.71	1,710.9	1.31	11.94	-103.3	31.08	11.42	23101164-002A
AP-2	10/26/2023	13:05	16.6	61.9	6.57	1,375.8	1.04	15.13	-16.1	21.33	8.70	23101164-003A
AP-3	10/26/2023	13:25	18.2	64.8	6.69	1,293.6	1.28	10.54	-79.9		10.09	23101164-004A
AP-4	10/26/2023	14:06	19.1	66.4	6.99	865.9	1.78	8.84	-91.3	60.41	10.79	23101164-005A
AP-5	10/26/2023	14:44	14.4	57.9	7.17	652.7	2.61	2.05	-2.3	31.27	18.17	23101164-006A
AP-6	10/26/2023	9:09	15.2	59.4	7.17	609.4	1.75	9.52	-101.5	39.62	10.06	23101164-007A
AP-7	10/26/2023	13:58	14.5	58.1	7.15	478.1	0.67	7.82	-155.7	42.52	12.45	23101164-008A
AP-8	10/26/2023	9:30	15.2	59.4	7.01	926.5	1.41	9.1	-111.3	39.60	8.07	23101164-009A
AP-9	10/26/2023	14:46	17.1	62.8	6.81	743.3	1.14	10.37	-111.2	39.60	13.87	23101164-010A
AP-10	10/26/2023	12:43	14.9	58.8	6.82	1,182.1	0.94	12.43	-111.3	38.07	6.57	23101164-011A
AP-11	10/26/2023	11:52	16.7	62.1	6.60	1,038.9	0.91	11.89	-84.2	22.95	15.96	23101164-012A
AP-12	10/26/2023	11:20	15.7	60.3	6.62	1,816.3	0.66	63.28	-144.5	30.40	18.44	23101164-013A
AP-13	10/26/2023	10:33	15.5	59.9	6.74	820.7	1.03	159.47	-94.3	31.00	19.88	23101164-014A
AP-14	10/26/2023	13:51	14.3	57.7	7.06	1,735.5	0.97	6.91	-50.6	31.20	3.72	23101164-015A

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101164
Technician(s): JC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
CWLP- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
RW-3	10/25/2023	12:28	11.79	15.0	59.0	7.31	613.2	613.2	3.08	3.23	-61
RW-3	10/25/2023	12:31	11.79	16.0	60.8	7.25	633.4	633.4	1.93	8.1	-95.4
RW-3	10/25/2023	12:34	11.79	15.7	60.3	7.31	632.4	632.4	1.39	8.6	-125.8

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101164
Technician(s): JC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
CWLP- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-1	10/26/2023	12:16	11.42	15.8	60.4	6.76	1,608.0	1,608.0	2.81	14.64	-74.6
AP-1	10/26/2023	12:19	11.42	15.6	60.1	6.72	1,676.8	1,676.8	1.73	9.9	-93.3
AP-1	10/26/2023	12:22	11.42	15.4	59.7	6.71	1,710.9	1,710.9	1.31	11.94	-103.3

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101164
Technician(s): JC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
CWLP- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-2	10/26/2023	12:56	8.7	16.8	62.2	6.60	1,378.7	1,378.7	2.31	21.59	-20.8
AP-2	10/26/2023	12:59	8.7	16.7	62.1	6.58	1,375.7	1,375.7	1.54	19.53	-18
AP-2	10/26/2023	13:02	8.7	16.7	62.1	6.57	1,375.2	1,375.2	1.21	13.35	-16.9
AP-2	10/26/2023	13:05	8.7	16.6	61.88	6.57	1,375.8	1,375.8	1.04	15.13	-16.1

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101164
Technician(s): JC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
CWLP- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-3	10/26/2023	13:16	10.09	18.3	64.9	6.82	1,258.1	1,258.1	4.12	12.63	-50.7
AP-3	10/26/2023	13:19	10.09	18.0	64.4	6.72	1,280.4	1,280.4	2.34	16.99	-64.5
AP-3	10/26/2023	13:22	10.09	18.2	64.8	6.70	1,289.4	1,289.4	1.58	11.27	-74.9
AP-3	10/26/2023	13:25	10.09	18.2	64.76	6.69	1,293.6	1,293.6	1.28	10.54	-79.9

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101164
Technician(s): JC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
CWLP- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-4	10/26/2023	14:00	10.79	19.3	66.7	7.51	826.2	826.2	3.93	21.58	-44.8
AP-4	10/26/2023	14:03	10.79	19.0	66.2	7.06	856.2	856.2	2.63	14.79	-68.6
AP-4	10/26/2023	14:06	10.79	19.1	66.4	6.99	865.9	865.9	1.78	8.84	-91.3

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101164
Technician(s): JC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
CWLP- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-5	10/26/2023	14:38	18.17	14.5	58.1	7.25	649.9	649.9	3.96	2.79	-2.9
AP-5	10/26/2023	14:41	18.17	14.4	57.9	7.20	649.3	649.3	3	2.62	-2.6
AP-5	10/26/2023	14:44	18.17	14.4	57.9	7.17	652.7	652.7	2.61	2.05	-2.3

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101164
Technician(s): JC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
CWLP- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-6	10/26/2023	9:03	10.06	14.9	58.8	7.24	581.3	581.3	3.13	2.84	-46.4
AP-6	10/26/2023	9:06	10.06	14.8	58.6	7.19	599.7	599.7	2.14	6.25	-89.1
AP-6	10/26/2023	9:09	10.06	15.2	59.4	7.17	609.4	609.4	1.75	9.52	-101.5

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101164
Technician(s): JC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
CWLP- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-7	10/26/2023	13:49	12.45	14.3	57.7	7.17	455.0	455.0	0.78	25.78	-151
AP-7	10/26/2023	13:52	12.45	14.5	58.1	7.16	456.5	456.5	0.74	21.99	-153.2
AP-7	10/26/2023	13:55	12.45	14.6	58.3	7.15	472.5	472.5	0.7	3.96	-154.3
AP-7	10/26/2023	13:58	12.45	14.5	58.1	7.15	478.1	478.1	0.67	7.82	-155.7

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101164
Technician(s): JC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
CWLP- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-8	10/26/2023	9:24	8.07	15.0	59.0	7.03	927.0	927.0	2.61	17.19	-96.7
AP-8	10/26/2023	9:27	8.07	15.1	59.2	7.02	926.5	926.5	1.77	11.27	-105.8
AP-8	10/26/2023	9:30	8.07	15.2	59.4	7.01	926.5	926.5	1.41	9.1	-111.3

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101164
Technician(s): JC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
CWLP- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-10	10/26/2023	12:34	6.57	15.1	59.2	6.86	1,183.1	1,183.1	2.33	26.24	-92.3
AP-10	10/26/2023	12:37	6.57	14.9	58.8	6.84	1,181.5	1,181.5	1.47	15.58	-102
AP-10	10/26/2023	12:40	6.57	14.9	58.8	6.83	1,182.5	1,182.5	1.12	12.12	-107.5
AP-10	10/26/2023	12:43	6.57	14.9	58.82	6.82	1,182.1	1,182.1	0.94	12.43	-111.3

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101164
Technician(s): JC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
CWLP- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-14	10/26/2023	13:45	3.72	14.4	57.9	7.07	1,732.9	1,732.9	1.45	29.77	-49.2
AP-14	10/26/2023	13:48	3.72	14.4	57.9	7.06	1,734.3	1,734.3	1.15	18.15	-49.8
AP-14	10/26/2023	13:51	3.72	14.3	57.7	7.06	1,735.5	1,735.5	0.97	6.91	-50.6

Summit Environmental Technologies, Inc.
3310 Win St.
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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

November 22, 2023

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 23101164

Dear Shelly Hennessy:

Order No.: 23110120

Summit Environmental Technologies, Inc. received 15 sample(s) on 11/1/2023 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Website: http://www.settek.com

Case Narrative

WO#: **23110120**
Date: **11/22/2023**

CLIENT: TEKLAB Inc,
Project: 23101164

WorkOrder Narrative:
23110120: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

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Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-44&
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **23110120**
Date: **11/22/2023**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Website: http://www.settek.com

Workorder Sample Summary

WO#: **23110120**

22-Nov-23

CLIENT: TEKLAB Inc,
Project: 23101164

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23110120-001	23101164-001		10/25/2023 12:35:00 PM	11/1/2023 11:45:00 AM	Non-Potable Water
23110120-002	23101164-002		10/26/2023 12:22:00 PM	11/1/2023 11:45:00 AM	Non-Potable Water
23110120-003	23101164-003		10/26/2023 1:05:00 PM	11/1/2023 11:45:00 AM	Non-Potable Water
23110120-004	23101164-004		10/26/2023 1:35:00 PM	11/1/2023 11:45:00 AM	Non-Potable Water
23110120-005	23101164-005		10/26/2023 2:06:00 PM	11/1/2023 11:45:00 AM	Non-Potable Water
23110120-006	23101164-006		10/26/2023 2:44:00 PM	11/1/2023 11:45:00 AM	Non-Potable Water
23110120-007	23101164-007		10/26/2023 9:09:00 AM	11/1/2023 11:45:00 AM	Non-Potable Water
23110120-008	23101164-008		10/26/2023 1:58:00 PM	11/1/2023 11:45:00 AM	Non-Potable Water
23110120-009	23101164-009		10/26/2023 9:30:00 AM	11/1/2023 11:45:00 AM	Non-Potable Water
23110120-010	23101164-010		10/26/2023 2:46:00 PM	11/1/2023 11:45:00 AM	Non-Potable Water
23110120-011	23101164-011		10/26/2023 12:43:00 PM	11/1/2023 11:45:00 AM	Non-Potable Water
23110120-012	23101164-012		10/26/2023 11:52:00 AM	11/1/2023 11:45:00 AM	Non-Potable Water
23110120-013	23101164-013		10/26/2023 11:20:00 AM	11/1/2023 11:45:00 AM	Non-Potable Water
23110120-014	23101164-014		10/26/2023 10:33:00 AM	11/1/2023 11:45:00 AM	Non-Potable Water
23110120-015	23101164-015		10/26/2023 1:51:00 PM	11/1/2023 11:45:00 AM	Non-Potable Water

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DATES REPORT

WO#: **23110120**

22-Nov-23

Client: TEKLAB Inc,

Project: 23101164

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23110120-001A	23101164-001	10/25/2023 12:35:00 PM	Non-Potable Water	Combined Radium (EPA903+904)			11/15/2023 7:54:51 AM
				Radium-226 (EPA 903.0)		11/7/2023 1:38:00 PM	11/13/2023 10:53:00 AM
				Radium-228 (EPA 904.0)		11/7/2023 1:38:00 PM	11/10/2023 3:00:00 PM
23110120-002A	23101164-002	10/26/2023 12:22:00 PM		Combined Radium (EPA903+904)			11/15/2023 7:54:51 AM
				Radium-226 (EPA 903.0)		11/7/2023 1:38:00 PM	11/13/2023 10:53:00 AM
				Radium-228 (EPA 904.0)		11/7/2023 1:38:00 PM	11/10/2023 3:00:00 PM
23110120-003A	23101164-003	10/26/2023 1:05:00 PM		Combined Radium (EPA903+904)			11/15/2023 7:54:51 AM
				Radium-226 (EPA 903.0)		11/7/2023 1:38:00 PM	11/13/2023 10:53:00 AM
				Radium-228 (EPA 904.0)		11/7/2023 1:38:00 PM	11/10/2023 3:00:00 PM
23110120-004A	23101164-004	10/26/2023 1:35:00 PM		Combined Radium (EPA903+904)			11/15/2023 7:54:51 AM
				Radium-226 (EPA 903.0)		11/7/2023 1:38:00 PM	11/13/2023 10:53:00 AM
				Radium-228 (EPA 904.0)		11/7/2023 1:38:00 PM	11/10/2023 3:00:00 PM
23110120-005A	23101164-005	10/26/2023 2:06:00 PM		Combined Radium (EPA903+904)			11/15/2023 7:54:51 AM
				Radium-226 (EPA 903.0)		11/7/2023 1:38:00 PM	11/13/2023 10:53:00 AM
				Radium-228 (EPA 904.0)		11/7/2023 1:38:00 PM	11/10/2023 3:00:00 PM
23110120-006A	23101164-006	10/26/2023 2:44:00 PM		Combined Radium (EPA903+904)			11/15/2023 7:54:51 AM
				Radium-226 (EPA 903.0)		11/7/2023 1:38:00 PM	11/13/2023 10:53:00 AM
				Radium-228 (EPA 904.0)		11/7/2023 1:38:00 PM	11/10/2023 3:00:00 PM
23110120-007A	23101164-007	10/26/2023 9:09:00 AM		Combined Radium (EPA903+904)			11/15/2023 7:54:51 AM
				Radium-226 (EPA 903.0)		11/7/2023 1:38:00 PM	11/13/2023 10:53:00 AM
				Radium-228 (EPA 904.0)		11/7/2023 1:38:00 PM	11/10/2023 3:00:00 PM
23110120-008A	23101164-008	10/26/2023 1:58:00 PM		Combined Radium (EPA903+904)			11/15/2023 7:54:51 AM
				Radium-226 (EPA 903.0)		11/7/2023 1:38:00 PM	11/13/2023 10:53:00 AM

Original

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DATES REPORT

WO#: **23110120**

22-Nov-23

Client: TEKLAB Inc,

Project: 23101164

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23110120-008A	23101164-008	10/26/2023 1:58:00 PM	Non-Potable Water	Radium-228 (EPA 904.0)		11/7/2023 1:38:00 PM	11/10/2023 3:00:00 PM
23110120-009A	23101164-009	10/26/2023 9:30:00 AM		Combined Radium (EPA903+904)			11/15/2023 7:54:51 AM
				Radium-226 (EPA 903.0)		11/7/2023 1:38:00 PM	11/13/2023 10:53:00 AM
				Radium-228 (EPA 904.0)		11/7/2023 1:38:00 PM	11/10/2023 3:00:00 PM
23110120-010A	23101164-010	10/26/2023 2:46:00 PM		Combined Radium (EPA903+904)			11/15/2023 7:54:51 AM
				Radium-226 (EPA 903.0)		11/7/2023 1:38:00 PM	11/13/2023 10:53:00 AM
				Radium-228 (EPA 904.0)		11/7/2023 1:38:00 PM	11/10/2023 3:00:00 PM
23110120-011A	23101164-011	10/26/2023 12:43:00 PM		Combined Radium (EPA903+904)			11/15/2023 7:54:51 AM
				Radium-226 (EPA 903.0)		11/7/2023 1:38:00 PM	11/13/2023 10:53:00 AM
				Radium-228 (EPA 904.0)		11/7/2023 1:38:00 PM	11/10/2023 3:00:00 PM
23110120-012A	23101164-012	10/26/2023 11:52:00 AM		Combined Radium (EPA903+904)			11/15/2023 7:54:51 AM
				Radium-226 (EPA 903.0)		11/7/2023 1:38:00 PM	11/13/2023 10:53:00 AM
				Radium-228 (EPA 904.0)		11/7/2023 1:38:00 PM	11/10/2023 3:00:00 PM
23110120-013A	23101164-013	10/26/2023 11:20:00 AM		Combined Radium (EPA903+904)			11/15/2023 7:54:51 AM
				Radium-226 (EPA 903.0)		11/7/2023 1:38:00 PM	11/13/2023 10:53:00 AM
				Radium-228 (EPA 904.0)		11/7/2023 1:38:00 PM	11/10/2023 3:00:00 PM
23110120-014A	23101164-014	10/26/2023 10:33:00 AM		Combined Radium (EPA903+904)			11/17/2023 7:27:41 AM
				Radium-226 (EPA 903.0)		11/9/2023 2:11:46 PM	11/15/2023 10:35:00 AM
				Radium-228 (EPA 904.0)		11/9/2023 2:11:46 PM	11/14/2023 2:13:00 PM
23110120-015A	23101164-015	10/26/2023 1:51:00 PM		Combined Radium (EPA903+904)			11/17/2023 7:27:41 AM
				Radium-226 (EPA 903.0)		11/9/2023 2:11:46 PM	11/15/2023 10:35:00 AM
				Radium-228 (EPA 904.0)		11/9/2023 2:11:46 PM	11/14/2023 2:13:00 PM

Original

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Analytical Report

(consolidated)

WO#: **23110120**

Date Reported: **11/22/2023**

CLIENT: TEKLAB Inc,

Collection Date: 10/25/2023 12:35:00 PM

Project: 23101164

Lab ID: 23110120-001

Matrix: NON-POTABLE WATER

Client Sample ID: 23101164-001

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**		Analyst: **CXS**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	1.09	2.00	U	pCi/L	± 0.750	1	11/15/2023 7:54:51 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	0.19	1.00	U	pCi/L	± 0.0700	1	11/13/2023 10:53:00 A
Yield	1					1	11/13/2023 10:53:00 A
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	0.9	1.00	J	pCi/L	± 0.680	1	11/10/2023 3:00:00 PM
Yield	1					1	11/10/2023 3:00:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

Original

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
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Analytical Report

(consolidated)

WO#: **23110120**

Date Reported: **11/22/2023**

CLIENT: TEKLAB Inc,

Collection Date: 10/26/2023 12:22:00 PM

Project: 23101164

Lab ID: 23110120-002

Matrix: NON-POTABLE WATER

Client Sample ID: 23101164-002

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**		Analyst: **CXS**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	0.85	2.00	U	pCi/L	± 0.630	1	11/15/2023 7:54:51 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	0.5	1.00	U	pCi/L	± 0.120	1	11/13/2023 10:53:00 A
Yield	0.93					1	11/13/2023 10:53:00 A
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	0.35	1.00	U	pCi/L	± 0.510	1	11/10/2023 3:00:00 PM
Yield	0.96					1	11/10/2023 3:00:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

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SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **23110120**

Date Reported: **11/22/2023**

CLIENT: TEKLAB Inc,

Collection Date: 10/26/2023 1:05:00 PM

Project: 23101164

Lab ID: 23110120-003

Matrix: NON-POTABLE WATER

Client Sample ID: 23101164-003

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**		Analyst: **CXS**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	0.42	2.00	U	pCi/L	± 0.610	1	11/15/2023 7:54:51 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	0.17	1.00	U	pCi/L	± 0.0700	1	11/13/2023 10:53:00 A
Yield	0.99					1	11/13/2023 10:53:00 A
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	0.25	1.00	U	pCi/L	± 0.540	1	11/10/2023 3:00:00 PM
Yield	1					1	11/10/2023 3:00:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

(consolidated)

WO#: **23110120**

Date Reported: **11/22/2023**

CLIENT: TEKLAB Inc,

Collection Date: 10/26/2023 1:35:00 PM

Project: 23101164

Lab ID: 23110120-004

Matrix: NON-POTABLE WATER

Client Sample ID: 23101164-004

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**		Analyst: **CXS**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	0.65	2.00	U	pCi/L	± 0.670	1	11/15/2023 7:54:51 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	0.17	1.00	U	pCi/L	± 0.0700	1	11/13/2023 10:53:00 A
Yield	1					1	11/13/2023 10:53:00 A
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	0.48	1.00	U	pCi/L	± 0.600	1	11/10/2023 3:00:00 PM
Yield	1					1	11/10/2023 3:00:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

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WO#: **23110120**

Date Reported: **11/22/2023**

CLIENT: TEKLAB Inc,

Collection Date: 10/26/2023 2:06:00 PM

Project: 23101164

Lab ID: 23110120-005

Matrix: NON-POTABLE WATER

Client Sample ID: 23101164-005

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**		Analyst: **CXS**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	1.58	2.00	U	pCi/L	± 0.800	1	11/15/2023 7:54:51 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	0.49	1.00	U	pCi/L	± 0.110	1	11/13/2023 10:53:00 A
Yield	1					1	11/13/2023 10:53:00 A
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	1.09	1.00		pCi/L	± 0.690	1	11/10/2023 3:00:00 PM
Yield	1					1	11/10/2023 3:00:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

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(consolidated)

WO#: **23110120**

Date Reported: **11/22/2023**

CLIENT: TEKLAB Inc,

Collection Date: 10/26/2023 2:44:00 PM

Project: 23101164

Lab ID: 23110120-006

Matrix: NON-POTABLE WATER

Client Sample ID: 23101164-006

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**		Analyst: **CXS**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	1.26	2.00	U	pCi/L	± 0.760	1	11/15/2023 7:54:51 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	0.15	1.00	U	pCi/L	± 0.0600	1	11/13/2023 10:53:00 A
Yield	1					1	11/13/2023 10:53:00 A
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	1.11	1.00		pCi/L	± 0.700	1	11/10/2023 3:00:00 PM
Yield	1					1	11/10/2023 3:00:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

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WO#: **23110120**

Date Reported: **11/22/2023**

CLIENT: TEKLAB Inc,

Collection Date: 10/26/2023 9:09:00 AM

Project: 23101164

Lab ID: 23110120-007

Matrix: NON-POTABLE WATER

Client Sample ID: 23101164-007

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**		Analyst: **CXS**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	0.52	2.00	U	pCi/L	± 0.570	1	11/15/2023 7:54:51 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	0.15	1.00	U	pCi/L	± 0.0600	1	11/13/2023 10:53:00 A
Yield	1					1	11/13/2023 10:53:00 A
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	0.37	1.00	U	pCi/L	± 0.510	1	11/10/2023 3:00:00 PM
Yield	1					1	11/10/2023 3:00:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

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(consolidated)

WO#: **23110120**

Date Reported: **11/22/2023**

CLIENT: TEKLAB Inc,

Collection Date: 10/26/2023 1:58:00 PM

Project: 23101164

Lab ID: 23110120-008

Matrix: NON-POTABLE WATER

Client Sample ID: 23101164-008

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**		Analyst: **CXS**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	0.8	2.00	U	pCi/L	± 0.770	1	11/15/2023 7:54:51 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	0.33	1.00	U	pCi/L	± 0.100	1	11/13/2023 10:53:00 A
Yield	0.98					1	11/13/2023 10:53:00 A
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	0.47	1.00	U	pCi/L	± 0.670	1	11/10/2023 3:00:00 PM
Yield	1					1	11/10/2023 3:00:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

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WO#: **23110120**

Date Reported: **11/22/2023**

CLIENT: TEKLAB Inc,

Collection Date: 10/26/2023 9:30:00 AM

Project: 23101164

Lab ID: 23110120-009

Matrix: NON-POTABLE WATER

Client Sample ID: 23101164-009

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**		Analyst: **CXS**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	1.55	2.00	U	pCi/L	± 0.970	1	11/15/2023 7:54:51 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	0.05	1.00	U	pCi/L	± 0.160	1	11/13/2023 10:53:00 A
Yield	1					1	11/13/2023 10:53:00 A
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	1.5	1.00		pCi/L	± 0.810	1	11/10/2023 3:00:00 PM
Yield	0.99					1	11/10/2023 3:00:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

(consolidated)

WO#: **23110120**

Date Reported: **11/22/2023**

CLIENT: TEKLAB Inc,

Collection Date: 10/26/2023 12:43:00 PM

Project: 23101164

Lab ID: 23110120-011

Matrix: NON-POTABLE WATER

Client Sample ID: 23101164-011

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**		Analyst: **CXS**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	3.14	2.00		pCi/L	± 1.06	1	11/15/2023 7:54:51 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	0.75	1.00	J	pCi/L	± 0.140	1	11/13/2023 10:53:00 A
Yield	1					1	11/13/2023 10:53:00 A
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	2.39	1.00		pCi/L	± 0.920	1	11/10/2023 3:00:00 PM
Yield	1					1	11/10/2023 3:00:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

(consolidated)

WO#: **23110120**

Date Reported: **11/22/2023**

CLIENT: TEKLAB Inc,

Collection Date: 10/26/2023 1:51:00 PM

Project: 23101164

Lab ID: 23110120-015

Matrix: NON-POTABLE WATER

Client Sample ID: 23101164-015

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**		Analyst: **CXS**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	0.86	2.00	U	pCi/L	± 0.530	1	11/17/2023 7:27:41 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	0.29	1.00	U	pCi/L	± 0.0900	1	11/15/2023 10:35:00 A
Yield	0.96					1	11/15/2023 10:35:00 A
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	0.57	1.00	U	pCi/L	± 0.440	1	11/14/2023 2:13:00 PM
Yield	0.8					1	11/14/2023 2:13:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **23110120**

22-Nov-23

Client: TEKLAB Inc,

Project: 23101164 **BatchID:** **70288**

Sample ID: **23110093-002AMS** SampType: **MS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/7/2023** RunNo: **174559**

Client ID: **BatchQC** Batch ID: **70288** TestNo: **E904.0** **E903-904** Analysis Date: **11/10/2023** SeqNo: **4721762**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	5.85	1.00	5.000	1.460	87.8	70	130				
Yield	1.00			1.000	0						

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spe

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QC SUMMARY REPORT

WO#: **23110120**

22-Nov-23

Client: TEKLAB Inc,
Project: 23101164 **BatchID:** **70288**

Sample ID: **MB-70288** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/7/2023** RunNo: **174559**
Client ID: **PBW** Batch ID: **70288** TestNo: **E904.0** **E903-904** Analysis Date: **11/10/2023** SeqNo: **4721756**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						U
Yield	1.00			0	0						

Sample ID: **LCS-70288** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/7/2023** RunNo: **174559**
Client ID: **LCSW** Batch ID: **70288** TestNo: **E904.0** **E903-904** Analysis Date: **11/10/2023** SeqNo: **4721757**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.82	1.00	5.000	0	96.4	70	130				QLR
Yield	1.00			0	0						

Sample ID: **LCSD-70288** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/7/2023** RunNo: **174559**
Client ID: **LCSS02** Batch ID: **70288** TestNo: **E904.0** **E903-904** Analysis Date: **11/10/2023** SeqNo: **4721758**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.74	1.00	5.000	0	74.8	70	130	4.820	25.2	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spe

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QC SUMMARY REPORT

WO#: **23110120**

22-Nov-23

Client: TEKLAB Inc,

Project: 23101164 **BatchID:** **70288**

Sample ID: **RLCD-70288** SampType: **RLC** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/7/2023** RunNo: **174559**

Client ID: **BatchQC** Batch ID: **70288** TestNo: **E904.0** **E903-904** Analysis Date: **11/10/2023** SeqNo: **4721761**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.10	1.00	1.000	0	110	50	150				
Yield	0.970			0	0						

Sample ID: **23110191-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/7/2023** RunNo: **174559**

Client ID: **BatchQC** Batch ID: **70288** TestNo: **E904.0** **E903-904** Analysis Date: **11/10/2023** SeqNo: **4721783**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0.7400	200	20	RU
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spe

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QC SUMMARY REPORT

WO#: **23110120**

22-Nov-23

Client: TEKLAB Inc,

Project: 23101164 **BatchID:** **70288**

Sample ID: **23110093-002AMS** SampType: **MS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/7/2023** RunNo: **174560**

Client ID: **BatchQC** Batch ID: **70288** TestNo: **E903.0** **E903-904** Analysis Date: **11/13/2023** SeqNo: **4721797**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.76	1.00	5.000	0	115	70	130				

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spe

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QC SUMMARY REPORT

WO#: **23110120**

22-Nov-23

Client: TEKLAB Inc,
Project: 23101164 **BatchID:** **70288**

Sample ID: **MB-70288**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/7/2023**	RunNo: **174560**
Client ID: **PBW**	Batch ID: **70288**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/13/2023**	SeqNo: **4721791**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									U
Yield	0.990										

Sample ID: **LCS-70288**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/7/2023**	RunNo: **174560**
Client ID: **LCSW**	Batch ID: **70288**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/13/2023**	SeqNo: **4721792**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.76	1.00	5.000	0	95.2	70	130				

Sample ID: **LCSD-70288**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/7/2023**	RunNo: **174560**
Client ID: **LCSS02**	Batch ID: **70288**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/13/2023**	SeqNo: **4721793**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.50	1.00	5.000	0	90.0	70	130	4.760	5.62	20	

Sample ID: **RLC-70288**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/7/2023**	RunNo: **174560**
Client ID: **BatchQC**	Batch ID: **70288**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/13/2023**	SeqNo: **4721795**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spe

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SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **23110120**

22-Nov-23

Client: TEKLAB Inc,
Project: 23101164 **BatchID:** **70288**

Sample ID: **RLC-70288** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/7/2023** RunNo: **174560**
Client ID: **BatchQC** Batch ID: **70288** TestNo: **E903.0** **E903-904** Analysis Date: **11/13/2023** SeqNo: **4721795**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.29	1.00	1.000	0	129	50	150				

Sample ID: **RLCD-70288** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/7/2023** RunNo: **174560**
Client ID: **BatchQC** Batch ID: **70288** TestNo: **E903.0** **E903-904** Analysis Date: **11/13/2023** SeqNo: **4721796**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.18	1.00	1.000	0	118	50	150				

Sample ID: **23110190-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/7/2023** RunNo: **174560**
Client ID: **BatchQC** Batch ID: **70288** TestNo: **E903.0** **E903-904** Analysis Date: **11/13/2023** SeqNo: **4721816**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	U
Yield	1.00							1.000	0	0	

Sample ID: **23110191-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/7/2023** RunNo: **174560**
Client ID: **BatchQC** Batch ID: **70288** TestNo: **E903.0** **E903-904** Analysis Date: **11/13/2023** SeqNo: **4721818**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spe

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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **23110120**

22-Nov-23

Client: TEKLAB Inc,

Project: 23101164 **BatchID:** **70288**

Sample ID: **23110191-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/7/2023** RunNo: **174560**

Client ID: **BatchQC** Batch ID: **70288** TestNo: **E903.0** **E903-904** Analysis Date: **11/13/2023** SeqNo: **4721818**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	U
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spe

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QC SUMMARY REPORT

WO#: **23110120**

22-Nov-23

Client: TEKLAB Inc,

Project: 23101164 **BatchID:** **70385**

Sample ID: **23110328-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/9/2023** RunNo: **174694**

Client ID: **BatchQC** Batch ID: **70385** TestNo: **E904.0** **E903-904** Analysis Date: **11/14/2023** SeqNo: **4725143**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0.7700	200	30	RU
Yield	0.840			0	0			0.9100	8.00		

Sample ID: **23110328-002ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/9/2023** RunNo: **174694**

Client ID: **BatchQC** Batch ID: **70385** TestNo: **E904.0** **E903-904** Analysis Date: **11/14/2023** SeqNo: **4725145**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	0.910	1.00		0	0			0	200	30	JR
Yield	0.730			0	0			0.9600	27.2		

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spe

Original

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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **23110120**

22-Nov-23

Client: TEKLAB Inc,
Project: 23101164 **BatchID:** **70385**

Sample ID: **MB-70385**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **11/9/2023**	RunNo: **174694**
Client ID: **PBW**	Batch ID: **70385**	TestNo: **E904.0**	**E903-904**	Analysis Date: **11/14/2023**	SeqNo: **4725103**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						U
Yield	1.00			0	0						

Sample ID: **LCS-70385**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **11/9/2023**	RunNo: **174694**
Client ID: **LCSW**	Batch ID: **70385**	TestNo: **E904.0**	**E903-904**	Analysis Date: **11/14/2023**	SeqNo: **4725104**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.03	1.00	5.000	0	80.6	70	130				
Yield	0.850			0	0						

Sample ID: **RLC-70385**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **11/9/2023**	RunNo: **174694**
Client ID: **BatchQC**	Batch ID: **70385**	TestNo: **E904.0**	**E903-904**	Analysis Date: **11/14/2023**	SeqNo: **4725107**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	0.930	1.00	1.000	0	93.0	50	150				J
Yield	0.920			0	0						

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spe

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QC SUMMARY REPORT

WO#: **23110120**

22-Nov-23

Client: TEKLAB Inc,

Project: 23101164 **BatchID:** **70385**

Sample ID: **23110328-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/9/2023** RunNo: **174727**

Client ID: **BatchQC** Batch ID: **70385** TestNo: **E903.0** **E903-904** Analysis Date: **11/15/2023** SeqNo: **4726100**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	U
Yield	1.00							1.000	0	0	

Sample ID: **23110328-002ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/9/2023** RunNo: **174727**

Client ID: **BatchQC** Batch ID: **70385** TestNo: **E903.0** **E903-904** Analysis Date: **11/15/2023** SeqNo: **4726102**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	U
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spe

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QC SUMMARY REPORT

WO#: **23110120**

22-Nov-23

Client: TEKLAB Inc,
Project: 23101164 **BatchID:** **70385**

Sample ID: **MB-70385**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/9/2023**	RunNo: **174727**
Client ID: **PBW**	Batch ID: **70385**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/15/2023**	SeqNo: **4726091**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									U
Yield	0.960										

Sample ID: **LCS-70385**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/9/2023**	RunNo: **174727**
Client ID: **LCSW**	Batch ID: **70385**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/15/2023**	SeqNo: **4726092**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.82	1.00	5.000	0	116	70	130				

Sample ID: **LCSD-70385**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/9/2023**	RunNo: **174727**
Client ID: **LCSS02**	Batch ID: **70385**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/15/2023**	SeqNo: **4726093**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.96	1.00	5.000	0	99.2	70	130	5.820	16.0	20	

Sample ID: **RLC-70385**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/9/2023**	RunNo: **174727**
Client ID: **BatchQC**	Batch ID: **70385**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/15/2023**	SeqNo: **4726095**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spe

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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **23110120**

22-Nov-23

Client: TEKLAB Inc,

Project: 23101164 **BatchID:** **70385**

Sample ID: **RLC-70385**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/9/2023**	RunNo: **174727**
Client ID: **BatchQC**	Batch ID: **70385**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/15/2023**	SeqNo: **4726095**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00	1.000	0	60.0	50	150				

Sample ID: **RLCD-70385**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/9/2023**	RunNo: **174727**
Client ID: **BatchQC**	Batch ID: **70385**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/15/2023**	SeqNo: **4726096**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	0.820	1.00	1.000	0	82.0	50	150				J

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spe

Original

Pg 1 of 2 23110120

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: Sampler: Teklab INC QC Level: 1

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium (226, 228, and combined) by method EPA903.0/904.0
on standard TAT Please include negative values (no ND).
Batch QC and CCR EDD are required. Receipt summary requested.

Project# 23101164

Contact: Shelly Hennessy Email: shennessy
Requested Due Date: 20 business days or less Billing/PO: 35260
Phone: 618 344 1004

State of Origin: IL

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Changes to analysis/methods must be approved by Teklab, Inc.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226	Radium 228	Combined Radium										pH	CPM
	23101164-001	10/25/23 1235	HNO3	Groundwater	✔	✔	✔										1	25
	23101164-002	10/26/23 1222	HNO3	Groundwater	✔	✔	✔										1	21
	23101164-003	10/26/23 1305	~~Unpres~~ HNO3	Groundwater	✔	✔	✔										1	31
	23101164-004	10/26/23 1335	~~Unpres~~	Groundwater	✔	✔	✔										1	31
	23101164-005	10/26/23 1406	~~Unpres~~	Groundwater	✔	✔	✔										1	18
	23101164-006	10/26/23 1444	~~Unpres~~	Groundwater	✔	✔	✔										1	31
	23101164-007	10/26/23 0909	~~Unpres~~	Groundwater	✔	✔	✔										1	18
	23101164-008	10/26/23 1358	~~Unpres~~	Groundwater	✔	✔	✔										1	18
	23101164-009	10/26/23 0930	~~Unpres~~	Groundwater	✔	✔	✔										1	31
	23101164-010	10/26/23 1446	~~Unpres~~	Groundwater	✔	✔	✔										1	27
	23101164-011	10/26/23 1243	~~Unpres~~	Groundwater	✔	✔	✔										1	15

*Relinquished By	Date/Time	Received By	Date/Time
		Jackie Nesbitt	11-1-23 11:45

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA 3/2/2016

17.3, 13.5, 13.6 / doors / Red Ey

17.6, 13.4, 13.5

TEKLAB, INC. Chain of Custody

23110120

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: Sampler: Teklab INC QC Level: 1

Project# 23101164

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium (226, 228, and combined) by method EPA903.0/904.0
on standard TAT Please include negative values (no ND).
Batch QC and CCR EDD are required. Receipt summary requested.

Contact: Shelly Hennessy Email: shennessy
Requested Due Date: 20 business days or less Billing/PO: 35260
Phone: 618 344 1004 State of Origin:

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Changes to analysis/methods must be approved by Teklab, Inc.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226	Radium 228	Combined Radium										
	23101164-012 10/26/23	~~10/25/23~~ 1152	HNO3	Groundwater	✔	✔	✔								11		
	23101164-013	10/26/23 1120	HNO3	Groundwater	✔	✔	✔								1		
	23101164-014	10/26/23 1033	~~Unpres~~ HNO3	Groundwater	✔	✔	✔								1		
	23101164-015	10/26/23 1351	~~Unpres~~ ↓	Groundwater	✔	✔	✔								1		
			Unpres	Groundwater													
			Unpres	Groundwater													
			Unpres	Groundwater													
			Unpres	Groundwater													
			Unpres	Groundwater													
			Unpres	Groundwater													
			Unpres	Groundwater													

CPM
11
15
18
50

*Relinquished By	Date/Time	Received By	Date/Time
			11-1-23/1145

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SubCocRevA
3/2/2016

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 23110120 RcptNo: 1

Logged by:	Jacqueline Rasile	11/1/2023 11:45:00 AM	Jackie Rasile
Completed By:	Jacqueline Rasile	11/2/2023 11:10:56 AM	Jackie Rasile
Reviewed By:	Jennifer Woolf	11/2/2023 1:45:17 PM	Jennifer Woolf

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	FedEx		

Log In

3.	Coolers are present?	Yes ☑	No ☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
	Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
	No. Seal Date: Signed By:			
5.	Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☐	NA ☑
7.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
8.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
9.	Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
10.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
11.	Is the headspace in the VOA vials less than 1/4 inch or 6 mm?	Yes ☐	No ☐	No VOA Vials ☑
12.	Were any sample containers received broken?	Yes ☐	No ☑	
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
14.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
15.	Is it clear what analyses were requested?	Yes ☑	No ☐	
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

Special Handling (if applicable)

17.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	13.5	Good	Not Present			

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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 23110120 RcptNo: 1

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
2	13.6	Good	Not Present			
3	17.7	Good	Not Present			

November 30, 2023

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: FGDS Landfill **WorkOrder:** 23101165

Dear Eric Staley:

TEKLAB, INC received 11 samples on 10/25/2023 5:15:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Client: City Water, Light & Power
Client Project: FGDS Landfill

Work Order: 23101165
Report Date: 30-Nov-23

This reporting package includes the following:

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Client: City Water, Light & Power **Work Order:** 23101165

Client Project: FGDS Landfill **Report Date:** 30-Nov-23

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power
Work Order: 23101165
Client Project: FGDS Landfill
Report Date: 30-Nov-23

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 23101165
Client Project: FGDS Landfill
Report Date: 30-Nov-23

Cooler Receipt Temp: 4.8 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 & Radium-228 analyses were performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power
Work Order: 23101165
Client Project: FGDS Landfill
Report Date: 30-Nov-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: City Water, Light & Power **Work Order:** 23101165

Client Project: FGDS Landfill **Report Date:** 30-Nov-23

Lab ID: 23101165-006 **Client Sample ID:** G120

Matrix: GROUNDWATER **Collection Date:** 10/25/2023 13:39

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**502.73**	ft	1	10/25/2023 13:39	R338823
Depth to water	*	-5.00		**18.61**	ft	1	10/25/2023 13:39	R338823
Depth to water from measuring point	*	0		**18.61**	ft	1	10/25/2023 13:39	R338823
Elevation of groundwater surface	*	0		**534.49**	ft	1	10/25/2023 13:39	R338823
Measuring Point Elevation	*	0		**553.10**	ft	1	10/25/2023 13:39	R338823
Measuring Point Height Above Land Surface	*	0		**0**	ft	1	10/25/2023 13:39	R338823
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.2**	NTU	1	10/25/2023 13:39	R338823
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**63.2**	°F	1	10/25/2023 13:39	R338823
SW-846 9040B								
pH, Field	*	1.00		**6.78**		1	10/25/2023 13:39	R338823
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1780**	µmhos/cm @25C	1	10/25/2023 13:39	R338823
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	100		**1390**	mg/L	5	10/30/2023 11:50	R338538
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**555**	mg/L	20	10/27/2023 20:26	R338425
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.18**	mg/L	1	11/02/2023 15:45	R338693
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**40**	mg/L	1	10/27/2023 20:21	R338455
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.556**	mg/L	1	11/02/2023 10:55	213836
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/02/2023 10:55	213836
Boron	NELAP	0.0200		**7.15**	mg/L	1	11/02/2023 10:55	213836
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/02/2023 10:55	213836
Calcium	NELAP	0.100		**257**	mg/L	1	11/02/2023 10:55	213836
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/02/2023 10:55	213836
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/02/2023 10:55	213836
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	11/02/2023 10:55	213836
Lithium	NELAP	0.0050		**0.0486**	mg/L	1	11/02/2023 10:55	213836
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/02/2023 10:55	213836
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/02/2023 19:15	213836
Arsenic	NELAP	0.0010		**0.0162**	mg/L	5	11/02/2023 19:15	213836
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/02/2023 19:15	213836
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/02/2023 19:15	213836
PQL recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/01/2023 12:17	214005
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	11/14/2023 0:00	R339861
Radium-228	*	0		**See Attached**	pci/L	1	11/14/2023 0:00	R339861

Client: City Water, Light & Power **Work Order:** 23101165

Client Project: FGDS Landfill **Report Date:** 30-Nov-23

Lab ID: 23101165-009 **Client Sample ID:** AW-1

Matrix: GROUNDWATER **Collection Date:** 10/25/2023 9:59

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**500.79**	ft	1	10/25/2023 9:59	R338823
Depth to water	*	-5.00		**14.63**	ft	1	10/25/2023 9:59	R338823
Depth to water from measuring point	*	0		**17.38**	ft	1	10/25/2023 9:59	R338823
Elevation of groundwater surface	*	0		**538.22**	ft	1	10/25/2023 9:59	R338823
Measuring Point Elevation	*	0		**555.60**	ft	1	10/25/2023 9:59	R338823
Measuring Point Height Above Land Surface	*	0		**2.75**	ft	1	10/25/2023 9:59	R338823
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**81**	NTU	1	10/25/2023 9:59	R338823
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.1**	°F	1	10/25/2023 9:59	R338823
SW-846 9040B								
pH, Field	*	1.00		**6.54**		1	10/25/2023 9:59	R338823
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1450**	µmhos/cm @25C	1	10/25/2023 9:59	R338823
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	100		**1220**	mg/L	5	10/30/2023 11:50	R338538
SW-846 9036 (TOTAL)								
Sulfate	NELAP	100		**384**	mg/L	10	10/27/2023 20:51	R338425
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**< 0.10**	mg/L	1	11/02/2023 15:50	R338693
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**40**	mg/L	1	10/27/2023 20:45	R338455
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**1.96**	mg/L	1	11/02/2023 11:49	213836
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/02/2023 11:49	213836
Boron	NELAP	0.0200		**8.66**	mg/L	1	11/02/2023 11:49	213836
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/02/2023 11:49	213836
Calcium	NELAP	0.100		**197**	mg/L	1	11/02/2023 11:49	213836
Chromium	NELAP	0.0050		**0.0101**	mg/L	1	11/02/2023 11:49	213836
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/02/2023 11:49	213836
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	11/02/2023 11:49	213836
Lithium	NELAP	0.0050		**0.0739**	mg/L	1	11/02/2023 11:49	213836
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/02/2023 11:49	213836
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/02/2023 20:16	213836
Arsenic	NELAP	0.0010		**0.208**	mg/L	5	11/02/2023 20:16	213836
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/02/2023 20:16	213836
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/02/2023 20:16	213836
PQL recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/01/2023 12:24	214005
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	11/21/2023 0:00	R339861
Radium-228	*	0		**See Attached**	pci/L	1	11/21/2023 0:00	R339861

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: FGDS Landfill

Work Order: 23101165
Report Date: 30-Nov-23

Carrier: Justin Colp

Received By: HAW

Completed by: Timothy W. Mathis
On: 26-Oct-23

Reviewed by: Ellie Hopkins
On: 27-Oct-23

Pages to follow: Chain of custody 2 Extra pages included 45

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 4.8
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

pH strip #90719 CET. - TMathis - 10/26/2023 12:50:41 PM

Additional Nitric Acid (92447) was needed in AW-2 250 and G120 2L upon arrival at the laboratory. - TMathis - 10/26/2023 12:55:07 PM

pH strip #90719. - amberdilallo - 10/27/2023 9:46:53 AM

Samples collected on 10/26/23 were delivered to the laboratory on 10/26/23 at 1707 (on ice - 2.4C - LTG1). - HW/ERH 10/27/23

CHAIN OF CUSTODY

Pg 1 of 1 Workorder # 23101165

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 4.8 °C CT 6.5
Preserved in: ☒ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES: pH in 2719, A2282 HNO3 (9244) to AW-2 250m and G120 2L. CAS 10-26-23.

Client Comments: *TE 1234 SAH 11/7/23
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring 4Q2023-3Q2025
RW-3 report data from Ash Pond sampling event. 23101164-001

PROJECT NAME/NUMBER: FGDS Landfill
SAMPLE COLLECTOR'S NAME: Justin Colp

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
23101165-001	R101	10-25-23 / 1442	Groundwater	1	2								✔	✔	✔	✔	✔	✔
002	G110		Groundwater	1	2								✔	✔	✔	✔	✔	✔
003	R111		Groundwater	1	2								✔	✔	✔	✔	✔	✔
004	G112	10-25-23 / 1053	Groundwater	1	2								✔	✔	✔	✔	✔	✔
005	G113		Groundwater	1	2								✔	✔	✔	✔	✔	✔
006	G120	10-25-23 / 1339	Groundwater	1	2								✔	✔	✔	✔	✔	✔
007	G121	1201	Groundwater	1	2								✔	✔	✔	✔	✔	✔
008	G122	1129	Groundwater	1	2								✔	✔	✔	✔	✔	✔
009	AW-1	0959	Groundwater	1	2								✔	✔	✔	✔	✔	✔
010	AW-2	1318	Groundwater	1	2								✔	✔	✔	✔	✔	✔
011	RW-3 ⊛	* 1235	Groundwater	0	0								✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
J. Colp	10-25-23 1715	[signature]	10/25/23 1715

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

CAO 10/26/23

CHAIN OF CUSTODY

Pg 1 of 1 Workorder # 23101165

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 2.4 °C (TC#1)
Preserved in: [ ] LAB [X] FIELD FOR LAB USE ONLY
LAB NOTES: 9019 Sum 10/27/23

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring 4Q2023-3Q2025
RW-3 report data from Ash Pond sampling event. 23101164-001

PROJECT NAME/NUMBER: FGDS Landfill
SAMPLE COLLECTOR'S NAME: Justin Gilp

RESULTS REQUESTED: [✓] Standard [ ] 1-2 Day (100% Surcharge) [ ] Other [ ] 3 Day (50% Surcharge)
BILLING INSTRUCTIONS:

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
23101165-001	R101		Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	G110	10-25-23/1220	Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	R111	10-25-23/1135	Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	G112		Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	G113 *	10-25-23/~~1422~~	Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	G120	10/25 1422 1415	Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	G121	TE SAN 11/7/23	Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	G122		Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AW-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AW-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	RW-3 ⊛		Groundwater	0	0								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
Brett Gilp	10-26-23 17:07	Hardin Wa	10/26/23 1707

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101165
Technician(s): JC, BG

Groundwater Sampling Summary
CWLP- 4Q 2023

			Weather				Well Condition				
WO Sample	**Well ID**	**Program/ Sample Type**	**Temp (°F)**	**Precipitation**	**Wind Direction**	**Sky**	**Well Pad**	**Casing**	**Protective Cover**	**Reference Mark/ ID**	**Well Locked**
001	R101	Groundwater Sample	74.0	None	S	Clear	Good	Good	Good	Yes	**No**
002	G110	Groundwater Sample	71.0	Light	S	Cloudy	Good	Good	Good	**No**	**No**
003	R111	Groundwater Sample	71.0	None	S	Cloudy	Good	Good	Good	Yes	**No**
004	G112	Groundwater Sample	64.0	None	SW	Cloudy	Good	Good	Good	Yes	**No**
005	G113	Groundwater Sample	73.0	None	S	Clear	Good	Good	Good	Yes	**No**
006	G120	Groundwater Sample	71.0	None	S	Clear	Good	Good	Good	Yes	**No**
007	G121	Groundwater Sample	68.0	None	S	Cloudy	Good	Good	Good	Yes	**No**
008	G122	Groundwater Sample	67.0	None	S	Partly cloudy	Good	Good	Good	Yes	**No**
009	AW-1	Groundwater Sample	64.0	None	SW	Cloudy	Good	Good	Good	Yes	**No**
010	AW-2	Groundwater Sample	71.0	None	S	Partly cloudy	Good	Good	Good	Yes	**No**
011	RW-3	Groundwater Sample	70.0	None	S	Clear	Good	Good	Good	**No**	**No**

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101165
Technician(s): JC, BG

Groundwater Sampling Summary
CWLP- 4Q 2023

		GW Level Measurement				Purge Activities							
WO Sample	**Well ID**	**Sampler Initials**	**Date/Time**	**DTW (ft)**	**DTB (ft)**	**Sampler Initials**	**Purge Date**			**Sampling Device**	**Well Diameter (in)**	**Actual Volume Purged (L)**	**Purge Rate (mL/min)**
001	R101	BG	10/25/23 14:35	8.73	35.27	BG	10/25/2023	14:34	14:42	Submersible Pump	2"	3.0	375.0
002	G110	TAC	10/26/23 12:00	25.72	57.15	TAC	10/26/2023	12:05	12:20	Peristaltic Pump	2"	3.5	233.3
003	R111	TAC	10/26/23 11:14	26.87	55.75	TAC	10/26/2023	11:18	11:35	Submersible Pump	2"	6.0	352.9
004	G112	BG	10/25/23 10:22	30.42	58.81	BG	10/25/2023	10:23	10:53	Submersible Pump	2"	7.0	233.3
005	G113	BG	10/25/23 14:10	9.62	12.85	BG	10/25/2023	14:11	14:22	Submersible Pump	2"	3.0	272.7
006	G120	bg	10/25/23 13:30	18.61	50.37	BG	10/25/2023	13:32	13:39	Submersible Pump	2"	2.0	285.7
007	G121	BG	10/25/23 11:39	30.54	58.56	BG	10/25/2023	11:40	12:01	Submersible Pump	2"	8.0	381.0
008	G122	BG	10/25/23 11:07	32.24	49.29	BG	10/25/2023	11:09	11:29	Submersible Pump	2"	7.0	350.0
009	AW-1	BG	10/25/23 9:25	17.38	54.81	BG	10/25/2023	09:28	09:59	Submersible Pump	2"	7.0	225.8
010	AW-2	BG	10/25/23 12:51	7.41	32.64	BG	10/25/2023	12:52	13:18	Submersible Pump	2"	6.0	230.8
011	RW-3	BG	10/26/23 12:26	11.79	44.01	BG	10/25/2023	12:24	12:35	Bladder Pump	2"	2.0	181.8

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101165
Technician(s): JC, BG

Groundwater Sampling Summary
CWLP- 4Q 2023

WO Sample	Well ID	Sampling Activities and Observations									
		Sampler Initials	Date	Sample Time	Sampling Method	Field Filtered	Appearance	Odor	Color	Post-Sample DTW (ft)	Drawdown (ft)
001	R101	BG	10/25/23	14:42	Low Flow	Yes	Clear	Slight	clear	10.19	**1.46**
002	G110	TAC	10/26/23	12:20	Low Flow	Yes	Clear	None	Lt Brown	26.68	0.96
003	R111	TAC	10/26/23	11:35	Low Flow	Yes	Clear	None	Lt Brown	27.23	0.36
004	G112	BG	10/25/23	10:53	Low Flow	Yes	Slightly cloudy	Slight	clear	34.62	**4.20**
005	G113	BG	10/25/23	14:22	Low Flow	Yes	Clear	Slight	clear	12.85	**3.23**
006	G120	BG	10/25/23	13:39	Low Flow	Yes	Clear	None	clear	19.72	**1.11**
007	G121	BG	10/25/23	12:01	Low Flow	Yes	Clear	None	Clear	31.61	**1.07**
008	G122	BG	10/25/23	11:29	Low Flow	Yes	Clear	Strong	Clear	31.45	-0.79
009	AW-1	bg	10/25/23	09:59	Low Flow	Yes	Slightly cloudy	Moderate	clear	20.81	**3.43**
010	AW-2	BG	10/25/23	13:18	Low Flow	Yes	Clear	None	clear	7.65	0.24
011	RW-3	bg	10/25/23	12:34	Low Flow	Yes	Clear	Slight	CLEAR	14.45	**2.66**

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101165
Technician(s): JC, BG

Groundwater Sampling Summary
CWLP- 4Q 2023

WO Sample	Well ID	COMMENTS
001	R101	
002	G110	
003	R111	
004	G112	
005	G113	went dry during filling, filled on 10-26 at 1415
006	G120	
007	G121	
008	G122	
009	AW-1	
010	AW-2	
011	RW-3	GW Level measurement time should be 1226 not 1504. logged this in the worng column

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101165
Technician(s): JC, BG

Stabilized Field Parameters Summary
CWLP- 4Q 2023

Well ID	Date	Time	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	DTB (ft)	DTW (ft)	LIMS ID
R101	10/25/2023	14:42	14.6	58.2	6.81	1,201.5	1,201.5	2.81	13.78	-76.1	35.27	8.73	23101165-001A
G110	10/26/2023	12:20	16.6	61.8	6.84	603.1	603.1	2.93	2.89	-105.0	57.15	25.72	23101165-002A
R111	10/26/2023	11:35	14.6	58.3	6.42	87.5	87.5	0.81	7.18	40.6	55.75	26.87	23101165-003A
G112	10/25/2023	10:53	14.9	58.9	7.01	1,406.9	1,406.9	0.72	39.35	-116.2	58.81	30.42	23101165-004A
G113	10/25/2023	14:22	17.2	63.0	6.21	1,793.3	1,793.3	1.36	7.81	-150.8	12.85	9.62	23101165-005A
G120	10/25/2023	13:39	17.3	63.2	6.78	1,775.7	1,775.7	1.36	8.15	-80.0	50.37	18.61	23101165-006A
G121	10/25/2023	12:01	15.0	59.0	6.83	1,409.2	1,409.2	0.71	14.82	-111.9	58.56	30.54	23101165-007A
G122	10/25/2023	11:29	14.7	58.4	6.70	1,666.1	1,666.1	0.82	7.04	-88.9	49.29	32.24	23101165-008A
AW-1	10/25/2023	9:59	15.1	59.1	6.54	1,449.2	1,449.2	0.86	80.77	-89.9	54.81	17.38	23101165-009A
AW-2	10/25/2023	13:18	16.7	62.1	6.89	1,198.1	1,198.1	0.92	20.56	-115.0	32.64	7.41	23101165-010A
RW-3	10/25/2023	12:34	15.7	60.2	7.31	632.4	632.4	1.39	8.60	-125.8	44.01	11.79	23101165-011A

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101165
Technician(s): JC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
CWLP- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G120	10/25/2023	13:33	18.61	17.3	63.2	7.32	1,643.1	1,643.1	5.22	13.04	-17.0
G120	10/25/2023	13:36	18.61	18.9	66.1	6.83	1,732.6	1,732.6	2.13	8.05	-51.7
G120	10/25/2023	13:39	18.61	17.3	63.2	6.78	1,775.7	1,775.7	1.36	8.15	-80.0

Site Samping Event: CWLP- 4Q 2023
LIMS Workorder: 23101165
Technician(s): JC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
CWLP- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AW-1	10/25/2023	9:38	17.38	15.1	59.2	6.44	1,447.0	1,447.0	2.11	123.41	-45.2
AW-1	10/25/2023	9:41	17.38	15.0	59.0	6.48	1,448.4	1,448.4	1.63	117.73	-59.6
AW-1	10/25/2023	9:44	17.38	15.0	59.0	6.50	1,447.7	1,447.7	1.38	121.79	-68.3
AW-1	10/25/2023	9:47	17.38	15.1	59.2	6.51	1,448.1	1,448.1	1.22	117.33	-74.4
AW-1	10/25/2023	9:50	17.38	15.1	59.2	6.52	1,449.6	1,449.6	1.11	103.92	-79.5
AW-1	10/25/2023	9:53	17.38	14.9	58.9	6.53	1,449.9	1,449.9	0.99	97.27	-83.9
AW-1	10/25/2023	9:56	17.38	15.1	59.1	6.54	1,448.8	1,448.8	0.91	86.14	-87.0
AW-1	10/25/2023	9:59	17.38	15.1	59.1	6.54	1,449.2	1,449.2	0.86	80.77	-89.9

Summit Environmental Technologies, Inc.
3310 Win St.
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Website: http://www.settek.com

November 28, 2023

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 23101165

Dear Shelly Hennessy:

Order No.: 23110123

Summit Environmental Technologies, Inc. received 11 sample(s) on 11/1/2023 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
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Website: http://www.settek.com

Case Narrative

WO#: **23110123**
Date: **11/28/2023**

CLIENT: TEKLAB Inc,
Project: 23101165

WorkOrder Narrative:
23110123: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

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3310 Win S
Cuyahoga Falls, Ohio 4422
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Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **23110123**
Date: **11/28/2023**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Workorder Sample Summary

WO#: **23110123**

28-Nov-23

CLIENT: TEKLAB Inc,
Project: 23101165

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23110123-001	23101165-001		10/25/2023 2:42:00 PM	11/1/2023 11:45:00 AM	Non-Potable Water
23110123-002	23101165-002		10/26/2023 12:20:00 PM	11/1/2023 11:45:00 AM	Non-Potable Water
23110123-003	23101165-003		10/26/2023 11:35:00 AM	11/1/2023 11:45:00 AM	Non-Potable Water
23110123-004	23101165-004		10/25/2023 10:53:00 AM	11/1/2023 11:45:00 AM	Non-Potable Water
23110123-005	23101165-005		10/26/2023 2:15:00 PM	11/1/2023 11:45:00 AM	Non-Potable Water
23110123-006	23101165-006		10/25/2023 1:39:00 PM	11/1/2023 11:45:00 AM	Non-Potable Water
23110123-007	23101165-007		10/25/2023 12:01:00 PM	11/1/2023 11:45:00 AM	Non-Potable Water
23110123-008	23101165-008		10/25/2023 11:29:00 AM	11/1/2023 11:45:00 AM	Non-Potable Water
23110123-009	23101165-009		10/25/2023 9:59:00 AM	11/1/2023 11:45:00 AM	Non-Potable Water
23110123-010	23101165-010		10/25/2023 1:18:00 PM	11/1/2023 11:45:00 AM	Non-Potable Water
23110123-011	23101165-011		10/25/2023 12:35:00 PM	11/1/2023 11:45:00 AM	Non-Potable Water

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DATES REPORT

WO#: **23110123**

28-Nov-23

Client: TEKLAB Inc,

Project: 23101165

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23110123-001A	23101165-001	10/25/2023 2:42:00 PM	Non-Potable Water	Combined Radium (EPA903+904)			11/28/2023 8:32:00 AM
				Radium-226 (EPA 903.0)		11/9/2023 2:11:46 PM	11/15/2023 10:35:00 AM
				Radium-228 (EPA 904.0)		11/9/2023 2:11:46 PM	11/14/2023 2:13:00 PM
23110123-002A	23101165-002	10/26/2023 12:20:00 PM		Combined Radium (EPA903+904)			11/28/2023 8:32:00 AM
				Radium-226 (EPA 903.0)		11/9/2023 2:11:46 PM	11/15/2023 10:35:00 AM
				Radium-228 (EPA 904.0)		11/9/2023 2:11:46 PM	11/14/2023 2:13:00 PM
23110123-003A	23101165-003	10/26/2023 11:35:00 AM		Combined Radium (EPA903+904)			11/28/2023 8:32:00 AM
				Radium-226 (EPA 903.0)		11/9/2023 2:11:46 PM	11/15/2023 10:35:00 AM
				Radium-228 (EPA 904.0)		11/9/2023 2:11:46 PM	11/14/2023 2:13:00 PM
23110123-004A	23101165-004	10/25/2023 10:53:00 AM		Combined Radium (EPA903+904)			11/28/2023 8:32:00 AM
				Radium-226 (EPA 903.0)		11/9/2023 2:11:46 PM	11/15/2023 10:35:00 AM
				Radium-228 (EPA 904.0)		11/9/2023 2:11:46 PM	11/14/2023 2:13:00 PM
23110123-005A	23101165-005	10/26/2023 2:15:00 PM		Combined Radium (EPA903+904)			11/28/2023 8:32:00 AM
				Radium-226 (EPA 903.0)		11/9/2023 2:11:46 PM	11/15/2023 10:35:00 AM
				Radium-228 (EPA 904.0)		11/9/2023 2:11:46 PM	11/14/2023 2:13:00 PM
23110123-006A	23101165-006	10/25/2023 1:39:00 PM		Combined Radium (EPA903+904)			11/28/2023 8:32:00 AM
				Radium-226 (EPA 903.0)		11/9/2023 2:11:46 PM	11/15/2023 10:35:00 AM
				Radium-228 (EPA 904.0)		11/9/2023 2:11:46 PM	11/14/2023 2:13:00 PM
23110123-007A	23101165-007	10/25/2023 12:01:00 PM		Combined Radium (EPA903+904)			11/28/2023 8:32:00 AM
				Radium-226 (EPA 903.0)		11/9/2023 2:11:46 PM	11/15/2023 10:35:00 AM
				Radium-228 (EPA 904.0)		11/9/2023 2:11:46 PM	11/14/2023 2:13:00 PM
23110123-008A	23101165-008	10/25/2023 11:29:00 AM		Combined Radium (EPA903+904)			11/28/2023 8:32:00 AM
				Radium-226 (EPA 903.0)		11/21/2023 12:03:19 PM	11/22/2023 9:43:00 AM

Original

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DATES REPORT

WO#: **23110123**

28-Nov-23

Client: TEKLAB Inc,

Project: 23101165

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23110123-008A	23101165-008	10/25/2023 11:29:00 AM	Non-Potable Water	Radium-228 (EPA 904.0)		11/21/2023 12:03:19 PM	11/21/2023 2:30:00 PM
23110123-009A	23101165-009	10/25/2023 9:59:00 AM		Combined Radium (EPA903+904)			11/28/2023 8:32:00 AM
				Radium-226 (EPA 903.0)		11/21/2023 12:03:19 PM	11/22/2023 9:43:00 AM
				Radium-228 (EPA 904.0)		11/21/2023 12:03:19 PM	11/21/2023 2:30:00 PM
23110123-010A	23101165-010	10/25/2023 1:18:00 PM		Combined Radium (EPA903+904)			11/28/2023 8:32:00 AM
				Radium-226 (EPA 903.0)		11/21/2023 12:03:19 PM	11/22/2023 9:43:00 AM
				Radium-228 (EPA 904.0)		11/21/2023 12:03:19 PM	11/21/2023 2:30:00 PM
23110123-011A	23101165-011	10/25/2023 12:35:00 PM		Combined Radium (EPA903+904)			11/28/2023 8:32:00 AM
				Radium-226 (EPA 903.0)		11/21/2023 12:03:19 PM	11/22/2023 9:43:00 AM
				Radium-228 (EPA 904.0)		11/21/2023 12:03:19 PM	11/21/2023 2:30:00 PM

Original

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
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Analytical Report

(consolidated)

WO#: **23110123**

Date Reported: **11/28/2023**

CLIENT: TEKLAB Inc,

Collection Date: 10/25/2023 1:39:00 PM

Project: 23101165

Lab ID: 23110123-006

Matrix: NON-POTABLE WATER

Client Sample ID: 23101165-006

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**		Analyst: **CXS**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	1.1	2.00	U	pCi/L	± 0.520	1	11/28/2023 8:32:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	0.55	1.00	U	pCi/L	± 0.120	1	11/15/2023 10:35:00 A
Yield	1					1	11/15/2023 10:35:00 A
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	0.55	1.00	U	pCi/L	± 0.400	1	11/14/2023 2:13:00 PM
Yield	0.78					1	11/14/2023 2:13:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

Original

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Analytical Report

(consolidated)

WO#: **23110123**

Date Reported: **11/28/2023**

CLIENT: TEKLAB Inc,

Collection Date: 10/25/2023 9:59:00 AM

Project: 23101165

Lab ID: 23110123-009

Matrix: NON-POTABLE WATER

Client Sample ID: 23101165-009

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**		Analyst: **CXS**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	0.45	2.00	U	pCi/L	± 0.450	1	11/28/2023 8:32:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	0.11	1.00	U	pCi/L	± 0.0600	1	11/22/2023 9:43:00 AM
Yield	0.94					1	11/22/2023 9:43:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	0.34	1.00	U	pCi/L	± 0.390	1	11/21/2023 2:30:00 PM
Yield	0.95					1	11/21/2023 2:30:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **23110123**

28-Nov-23

Client: TEKLAB Inc,

Project: 23101165 **BatchID:** **70385**

Sample ID: **23110328-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/9/2023** RunNo: **174694**

Client ID: **BatchQC** Batch ID: **70385** TestNo: **E904.0** **E903-904** Analysis Date: **11/14/2023** SeqNo: **4725143**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0.7700	200	30	RU
Yield	0.840			0	0			0.9100	8.00		

Sample ID: **23110328-002ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/9/2023** RunNo: **174694**

Client ID: **BatchQC** Batch ID: **70385** TestNo: **E904.0** **E903-904** Analysis Date: **11/14/2023** SeqNo: **4725145**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	0.910	1.00		0	0			0	200	30	JR
Yield	0.730			0	0			0.9600	27.2		

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **23110123**

28-Nov-23

Client: TEKLAB Inc,
Project: 23101165 **BatchID:** **70385**

Sample ID: **MB-70385**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **11/9/2023**	RunNo: **174694**
Client ID: **PBW**	Batch ID: **70385**	TestNo: **E904.0**	**E903-904**	Analysis Date: **11/14/2023**	SeqNo: **4725103**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						U
Yield	1.00			0	0						

Sample ID: **LCS-70385**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **11/9/2023**	RunNo: **174694**
Client ID: **LCSW**	Batch ID: **70385**	TestNo: **E904.0**	**E903-904**	Analysis Date: **11/14/2023**	SeqNo: **4725104**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.03	1.00	5.000	0	80.6	70	130				
Yield	0.850			0	0						

Sample ID: **RLC-70385**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **11/9/2023**	RunNo: **174694**
Client ID: **BatchQC**	Batch ID: **70385**	TestNo: **E904.0**	**E903-904**	Analysis Date: **11/14/2023**	SeqNo: **4725107**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	0.930	1.00	1.000	0	93.0	50	150				J
Yield	0.920			0	0						

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **23110123**

28-Nov-23

Client: TEKLAB Inc,

Project: 23101165 **BatchID:** **70385**

Sample ID: **23110328-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/9/2023** RunNo: **174727**

Client ID: **BatchQC** Batch ID: **70385** TestNo: **E903.0** **E903-904** Analysis Date: **11/15/2023** SeqNo: **4726100**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	U
Yield	1.00							1.000	0	0	

Sample ID: **23110328-002ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/9/2023** RunNo: **174727**

Client ID: **BatchQC** Batch ID: **70385** TestNo: **E903.0** **E903-904** Analysis Date: **11/15/2023** SeqNo: **4726102**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	U
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **23110123**

28-Nov-23

Client: TEKLAB Inc,
Project: 23101165 **BatchID:** **70385**

Sample ID: **MB-70385**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/9/2023**	RunNo: **174727**
Client ID: **PBW**	Batch ID: **70385**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/15/2023**	SeqNo: **4726091**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									U
Yield	0.960										

Sample ID: **LCS-70385**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/9/2023**	RunNo: **174727**
Client ID: **LCSW**	Batch ID: **70385**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/15/2023**	SeqNo: **4726092**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.82	1.00	5.000	0	116	70	130				

Sample ID: **LCSD-70385**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/9/2023**	RunNo: **174727**
Client ID: **LCSS02**	Batch ID: **70385**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/15/2023**	SeqNo: **4726093**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.96	1.00	5.000	0	99.2	70	130	5.820	16.0	20	

Sample ID: **RLC-70385**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/9/2023**	RunNo: **174727**
Client ID: **BatchQC**	Batch ID: **70385**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/15/2023**	SeqNo: **4726095**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **23110123**

28-Nov-23

Client: TEKLAB Inc,
Project: 23101165 **BatchID:** **70385**

Sample ID: **RLC-70385** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/9/2023** RunNo: **174727**
Client ID: **BatchQC** Batch ID: **70385** TestNo: **E903.0** **E903-904** Analysis Date: **11/15/2023** SeqNo: **4726095**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00	1.000	0	60.0	50	150				

Sample ID: **RLCD-70385** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/9/2023** RunNo: **174727**
Client ID: **BatchQC** Batch ID: **70385** TestNo: **E903.0** **E903-904** Analysis Date: **11/15/2023** SeqNo: **4726096**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	0.820	1.00	1.000	0	82.0	50	150				J

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **23110123**

28-Nov-23

Client: TEKLAB Inc,
Project: 23101165 **BatchID:** **70713**

Sample ID: **MB-70713**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **11/21/2023**	RunNo: **175217**
Client ID: **PBW**	Batch ID: **70713**	TestNo: **E904.0**	**E903-904**	Analysis Date: **11/21/2023**	SeqNo: **4740877**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						U
Yield	0.840			0	0						

Sample ID: **LCSD-70713**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **11/21/2023**	RunNo: **175217**
Client ID: **LCSS02**	Batch ID: **70713**	TestNo: **E904.0**	**E903-904**	Analysis Date: **11/21/2023**	SeqNo: **4740879**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.75	1.00	5.000	0	75.0	70	130	3.140	17.7	20	
Yield	0.740			0	0			0.8300	11.5		

Sample ID: **RLC-70713**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **11/21/2023**	RunNo: **175217**
Client ID: **BatchQC**	Batch ID: **70713**	TestNo: **E904.0**	**E903-904**	Analysis Date: **11/21/2023**	SeqNo: **4740881**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	0.860	1.00	1.000	0	86.0	50	150				J
Yield	0.760			0	0						

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **23110123**

28-Nov-23

Client: TEKLAB Inc,
Project: 23101165 **BatchID:** **70713**

Sample ID: **RLCD-70713**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **11/21/2023**	RunNo: **175217**
Client ID: **BatchQC**	Batch ID: **70713**	TestNo: **E904.0**	**E903-904**	Analysis Date: **11/21/2023**	SeqNo: **4740882**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.24	1.00	1.000	0	124	50	150				
Yield	0.860			0	0						

Sample ID: **23110535-001AMS**	SampType: **MS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **11/21/2023**	RunNo: **175217**
Client ID: **BatchQC**	Batch ID: **70713**	TestNo: **E904.0**	**E903-904**	Analysis Date: **11/21/2023**	SeqNo: **4740883**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.76	1.00	5.000	0.7200	60.8	70	130				S
Yield	0.840			0.9000	0						

Sample ID: **23111150-001ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **11/21/2023**	RunNo: **175217**
Client ID: **BatchQC**	Batch ID: **70713**	TestNo: **E904.0**	**E903-904**	Analysis Date: **11/21/2023**	SeqNo: **4740888**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	U
Yield	0.800			0	0			0.8100	1.24		

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **23110123**

28-Nov-23

Client: TEKLAB Inc,
Project: 23101165 **BatchID:** **70713**

Sample ID: **MB-70713**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/21/2023**	RunNo: **175228**
Client ID: **PBW**	Batch ID: **70713**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/22/2023**	SeqNo: **4741049**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									U
Yield	0.850										

Sample ID: **LCS-70713**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/21/2023**	RunNo: **175228**
Client ID: **LCSW**	Batch ID: **70713**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/22/2023**	SeqNo: **4741050**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	6.04	1.00	5.000	0	121	70	130				

Sample ID: **RLC-70713**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/21/2023**	RunNo: **175228**
Client ID: **BatchQC**	Batch ID: **70713**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/22/2023**	SeqNo: **4741053**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.08	1.00	1.000	0	108	50	150				

Sample ID: **RLCD-70713**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/21/2023**	RunNo: **175228**
Client ID: **BatchQC**	Batch ID: **70713**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/22/2023**	SeqNo: **4741054**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **23110123**

28-Nov-23

Client: TEKLAB Inc,
Project: 23101165 **BatchID:** **70713**

Sample ID: **RLCD-70713** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/21/2023** RunNo: **175228**
Client ID: **BatchQC** Batch ID: **70713** TestNo: **E903.0** **E903-904** Analysis Date: **11/22/2023** SeqNo: **4741054**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.12	1.00	1.000	0	112	50	150				

Sample ID: **23110535-001AMS** SampType: **MS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/21/2023** RunNo: **175228**
Client ID: **BatchQC** Batch ID: **70713** TestNo: **E903.0** **E903-904** Analysis Date: **11/22/2023** SeqNo: **4741055**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.80	1.00	5.000	0	116	70	130				

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL
W	Sample container temperature is out of limit as specified at testcode				

Original

Pg __ of __

TEKLAB, INC. Chain of Custody

2311012 3

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: Sampler: Teklab INC QC Level: 1

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium (226, 228, and combined) by method EPA903.0/904.0
on standard TAT Please include negative values (no ND).
Batch QC and CCR EDD are required. Receipt summary requested.

Project# 23101165

Contact: Shelly Hennessy Email: shennessy
Requested Due Date: 20 business days or less Billing/PO: 35259
Phone: 618 344 1004

State of Origin: IL

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Changes to analysis/methods must be approved by Teklab, Inc.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226	Radium 228	Combined Radium								pH		
	23101165-001	10/25/23 1442	HNO3	Groundwater	✔	✔	✔									1	21
	23101165-002	10/26/23 1220	HNO3	Groundwater	✔	✔	✔									1	27
	23101165-003	10/26/23 1135	~~Unpres~~ HNO3	Groundwater	✔	✔	✔									1	29
	23101165-004	10/25/23 1053	~~Unpres~~	Groundwater	✔	✔	✔									1	21
	23101165-005	10/26/23 1415	~~Unpres~~	Groundwater	✔	✔	✔									1	29
	23101165-006	10/25/23 1339	~~Unpres~~	Groundwater	✔	✔	✔									1	33
	23101165-007	10/25/23 1201	~~Unpres~~	Groundwater	✔	✔	✔									1	31
	23101165-008	10/25/23 1129	~~Unpres~~	Groundwater	✔	✔	✔									1	39
	23101165-009	10/25/23 0959	~~Unpres~~	Groundwater	✔	✔	✔									1	29
	23101165-010	10/25/23 1318	~~Unpres~~	Groundwater	✔	✔	✔									1	23
	23101165-011	10/25/23 1235	~~Unpres~~	Groundwater	✔	✔	✔									1	NOT Rcvd

CPM

*Relinquished By	Date/Time	Received By	Date/Time
		Jackie Reed	11-(23/ 11:45

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA 3/2/2016

17.7, 13.5, 13.6 / Coolers / FedEx

17.6, 13.4, 13.5

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 23110123 RcptNo: 1

Logged by:	Jacqueline Rasile	11/1/2023 11:45:00 AM	Jackie Rasile
Completed By:	Jacqueline Rasile	11/2/2023 11:30:48 AM	Jackie Rasile
Reviewed By:	Jennifer Woolf	11/2/2023 1:55:28 PM	Jennifer Woolf

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☐	No ☑	Not Present ☐
2.	How was the sample delivered?	FedEx		

Log In

3.	Coolers are present?	Yes ☑	No ☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
	Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
	No. Seal Date: Signed By:			
5.	Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☐	NA ☑
7.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
8.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
9.	Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
10.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
11.	Is the headspace in the VOA vials less than 1/4 inch or 6 mm?	Yes ☐	No ☐	No VOA Vials ☑
12.	Were any sample containers received broken?	Yes ☐	No ☑	
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
14.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
15.	Is it clear what analyses were requested?	Yes ☑	No ☐	
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

Special Handling (if applicable)

17.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Sample 23101165-011 not indicated on COC sample is the same as 23101164-001

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 23110123 RcptNo: 1

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
2	13.6	Good	Not Present			
3	17.7	Good	Not Present			

February 2024 Laboratory Analytical Report

March 18, 2024

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 24010117

Dear Eric Staley:

TEKLAB, INC received 15 samples on 2/26/2024 6:45:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24010117
Report Date: 18-Mar-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	27
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 24010117

Client Project: Ash Pond Monitoring Wells **Report Date:** 18-Mar-24

Abbr Definition

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24

Qualifiers

- Unknown hydrocarbon
B - Analyte detected in associated Method Blank
C - RL shown is a Client Requested Quantitation Limit
E - Value above quantitation range
H - Holding times exceeded
I - Associated internal standard was outside method criteria
J - Analyte detected below quantitation limits
M - Manual Integration used to determine area response
ND - Not Detected at the Reporting Limit
R - RPD outside accepted recovery limits
S - Spike Recovery outside recovery limits
T - TIC(Tentatively identified compound)
X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24

Cooler Receipt Temp: 3.3 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 & -228 analysis was performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power

Work Order: 24010117

Client Project: Ash Pond Monitoring Wells

Report Date: 18-Mar-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-001
Client Sample ID: RW-3
Matrix: GROUNDWATER
Collection Date: 02/21/2024 11:38

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	02/21/2024 11:38	R343702
Depth to water	*	-5.00		**6.40**	ft	1	02/21/2024 11:38	R343702
Depth to water from measuring point	*	0		**9.10**	ft	1	02/21/2024 11:38	R343702
Elevation of groundwater surface	*	0		**530.40**	ft	1	02/21/2024 11:38	R343702
Measuring Point Elevation	*	0		**539.50**	ft	1	02/21/2024 11:38	R343702
Measuring Point Height Above Land Surface	*	0		**2.70**	ft	1	02/21/2024 11:38	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**120**	NTU	1	02/21/2024 11:38	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.2**	°F	1	02/21/2024 11:38	R343702
SW-846 9040B								
pH, Field	*	1.00		**7.10**		1	02/21/2024 11:38	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**648**	µmhos/cm @25C	1	02/21/2024 11:38	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**335**	mg/L	2.5	02/23/2024 9:53	R343558
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**14**	mg/L	1	02/22/2024 22:24	R343452
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.37**	mg/L	1	02/23/2024 13:07	R343485
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**27**	mg/L	1	02/22/2024 22:24	R343454
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.166**	mg/L	1	02/26/2024 18:50	219117
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/26/2024 18:50	219117
Boron	NELAP	0.0200		**0.116**	mg/L	1	02/26/2024 18:50	219117
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/26/2024 18:50	219117
Calcium	NELAP	0.100		**63.4**	mg/L	1	02/26/2024 18:50	219117
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 18:50	219117
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 18:50	219117
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/26/2024 18:50	219117
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 18:50	219117
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/26/2024 18:50	219117
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 2:18	219117
Arsenic	NELAP	0.0010		**0.306**	mg/L	5	02/28/2024 2:18	219117
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 2:18	219117
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/28/2024 2:18	219117
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/23/2024 15:29	219103
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power **Work Order:** 24010117

Client Project: Ash Pond Monitoring Wells **Report Date:** 18-Mar-24

Lab ID: 24010117-002 **Client Sample ID:** AP-1

Matrix: GROUNDWATER **Collection Date:** 02/21/2024 13:41

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**504.29**	ft	1	02/21/2024 13:41	R343702
Depth to water	*	-5.00		**6.21**	ft	1	02/21/2024 13:41	R343702
Depth to water from measuring point	*	0		**8.48**	ft	1	02/21/2024 13:41	R343702
Elevation of groundwater surface	*	0		**526.89**	ft	1	02/21/2024 13:41	R343702
Measuring Point Elevation	*	0		**535.37**	ft	1	02/21/2024 13:41	R343702
Measuring Point Height Above Land Surface	*	0		**2.27**	ft	1	02/21/2024 13:41	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**28**	NTU	1	02/21/2024 13:41	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.0**	°F	1	02/21/2024 13:41	R343702
SW-846 9040B								
pH, Field	*	1.00		**6.51**		1	02/21/2024 13:41	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1470**	µmhos/cm @25C	1	02/21/2024 13:41	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1400**	mg/L	2.5	02/23/2024 10:04	R343558
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**790**	mg/L	20	02/22/2024 22:32	R343452
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.18**	mg/L	1	02/23/2024 13:18	R343485
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**54**	mg/L	2	02/22/2024 22:26	R343454
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.292**	mg/L	1	02/26/2024 18:52	219117
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/26/2024 18:52	219117
Boron	NELAP	0.200		**23.5**	mg/L	10	02/28/2024 13:38	219117
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/26/2024 18:52	219117
Calcium	NELAP	0.100		**250**	mg/L	1	02/26/2024 18:52	219117
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 18:52	219117
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 18:52	219117
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/26/2024 18:52	219117
Lithium	NELAP	0.0050		**0.0099**	mg/L	1	02/26/2024 18:52	219117
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/26/2024 18:52	219117
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 2:24	219117
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 2:24	219117
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 2:24	219117
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/28/2024 2:24	219117
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/23/2024 15:31	219103
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-003
Client Sample ID: AP-2
Matrix: GROUNDWATER
Collection Date: 02/22/2024 11:24

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.77**	ft	1	02/22/2024 11:24	R343702
Depth to water	*	-5.00		**4.61**	ft	1	02/22/2024 11:24	R343702
Depth to water from measuring point	*	0		**7.11**	ft	1	02/22/2024 11:24	R343702
Elevation of groundwater surface	*	0		**528.99**	ft	1	02/22/2024 11:24	R343702
Measuring Point Elevation	*	0		**536.10**	ft	1	02/22/2024 11:24	R343702
Measuring Point Height Above Land Surface	*	0		**2.50**	ft	1	02/22/2024 11:24	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**20**	NTU	1	02/22/2024 11:24	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.6**	°F	1	02/22/2024 11:24	R343702
SW-846 9040B								
pH, Field	*	1.00		**6.41**		1	02/22/2024 11:24	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1190**	µmhos/cm @25C	1	02/22/2024 11:24	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1020**	mg/L	2.5	02/23/2024 12:34	R343558
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**393**	mg/L	20	02/23/2024 12:55	R343641
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.21**	mg/L	1	02/23/2024 13:26	R343485
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**39**	mg/L	2	02/23/2024 12:50	R343643
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0678**	mg/L	1	02/26/2024 19:01	219117
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/26/2024 19:01	219117
Boron	NELAP	0.0200		**3.38**	mg/L	1	02/26/2024 19:01	219117
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/26/2024 19:01	219117
Calcium	NELAP	0.100		**210**	mg/L	1	02/26/2024 19:01	219117
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:01	219117
Cobalt	NELAP	0.0050		**0.0068**	mg/L	1	02/26/2024 19:01	219117
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/26/2024 19:01	219117
Lithium	NELAP	0.0050		**0.0059**	mg/L	1	02/26/2024 19:01	219117
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/26/2024 19:01	219117
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 2:30	219117
Arsenic	NELAP	0.0010		**0.0027**	mg/L	5	02/28/2024 2:30	219117
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 2:30	219117
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/28/2024 2:30	219117
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/23/2024 15:33	219103
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power **Work Order:** 24010117

Client Project: Ash Pond Monitoring Wells **Report Date:** 18-Mar-24

Lab ID: 24010117-004 **Client Sample ID:** AP-3

Matrix: GROUNDWATER **Collection Date:** 02/22/2024 12:03

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.45**	ft	1	02/22/2024 12:03	R343702
Depth to water	*	-5.00		**7.62**	ft	1	02/22/2024 12:03	R343702
Depth to water from measuring point	*	0		**9.32**	ft	1	02/22/2024 12:03	R343702
Elevation of groundwater surface	*	0		**526.08**	ft	1	02/22/2024 12:03	R343702
Measuring Point Elevation	*	0		**535.40**	ft	1	02/22/2024 12:03	R343702
Measuring Point Height Above Land Surface	*	0		**1.70**	ft	1	02/22/2024 12:03	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**22**	NTU	1	02/22/2024 12:03	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.0**	°F	1	02/22/2024 12:03	R343702
SW-846 9040B								
pH, Field	*	1.00		**6.55**		1	02/22/2024 12:03	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1050**	µmhos/cm @25C	1	02/22/2024 12:03	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**935**	mg/L	2.5	02/23/2024 12:34	R343558
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**512**	mg/L	20	02/23/2024 13:03	R343641
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.17**	mg/L	1	02/23/2024 13:28	R343485
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**54**	mg/L	2	02/23/2024 12:58	R343643
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0952**	mg/L	1	02/26/2024 19:02	219117
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/26/2024 19:02	219117
Boron	NELAP	0.0200		**14.8**	mg/L	1	02/26/2024 19:02	219117
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/26/2024 19:02	219117
Calcium	NELAP	0.100		**177**	mg/L	1	02/26/2024 19:02	219117
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:02	219117
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:02	219117
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/26/2024 19:02	219117
Lithium	NELAP	0.0050		**0.0062**	mg/L	1	02/26/2024 19:02	219117
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/26/2024 19:02	219117
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 11:23	219117
Arsenic	NELAP	0.0010		**0.0101**	mg/L	5	02/28/2024 3:18	219117
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 3:18	219117
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/28/2024 3:18	219117
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/23/2024 15:36	219103
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-005
Client Sample ID: AP-4
Matrix: GROUNDWATER
Collection Date: 02/23/2024 11:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**492.46**	ft	1	02/23/2024 11:21	R343702
Depth to water	*	-5.00		**5.90**	ft	1	02/23/2024 11:21	R343702
Depth to water from measuring point	*	0		**9.04**	ft	1	02/23/2024 11:21	R343702
Elevation of groundwater surface	*	0		**546.56**	ft	1	02/23/2024 11:21	R343702
Measuring Point Elevation	*	0		**555.60**	ft	1	02/23/2024 11:21	R343702
Measuring Point Height Above Land Surface	*	0		**3.14**	ft	1	02/23/2024 11:21	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**38**	NTU	1	02/23/2024 11:21	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.9**	°F	1	02/23/2024 11:21	R343702
SW-846 9040B								
pH, Field	*	1.00		**6.86**		1	02/23/2024 11:21	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**847**	µmhos/cm @25C	1	02/23/2024 11:21	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**520**	mg/L	2.5	02/26/2024 10:02	R343638
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**11**	mg/L	1	02/28/2024 16:56	R343726
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.16**	mg/L	1	02/26/2024 13:04	R343547
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**13**	mg/L	1	02/28/2024 16:56	R343732
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.390**	mg/L	1	02/27/2024 13:38	219154
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/27/2024 13:38	219154
Boron	NELAP	0.0200		**0.0871**	mg/L	1	02/27/2024 13:38	219154
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/27/2024 13:38	219154
Calcium	NELAP	0.100		**119**	mg/L	1	02/27/2024 13:38	219154
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/27/2024 13:38	219154
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/27/2024 13:38	219154
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/27/2024 13:38	219154
Lithium	NELAP	0.0050		**0.0076**	mg/L	1	02/27/2024 13:38	219154
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/27/2024 13:38	219154
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	B	**< 0.0010**	mg/L	5	02/28/2024 16:03	219154
Arsenic	NELAP	0.0010		**0.0375**	mg/L	5	02/28/2024 16:03	219154
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 16:03	219154
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/28/2024 16:03	219154
Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/29/2024 17:17	219164
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-006
Client Sample ID: AP-5
Matrix: GROUNDWATER
Collection Date: 02/22/2024 13:44

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**552.63**	ft	1	02/22/2024 13:44	R343702
Depth to water	*	-5.00		**13.65**	ft	1	02/22/2024 13:44	R343702
Depth to water from measuring point	*	0		**15.95**	ft	1	02/22/2024 13:44	R343702
Elevation of groundwater surface	*	0		**567.95**	ft	1	02/22/2024 13:44	R343702
Measuring Point Elevation	*	0		**583.90**	ft	1	02/22/2024 13:44	R343702
Measuring Point Height Above Land Surface	*	0		**2.30**	ft	1	02/22/2024 13:44	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**< 1.0**	NTU	1	02/22/2024 13:44	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.2**	°F	1	02/22/2024 13:44	R343702
SW-846 9040B								
pH, Field	*	1.00		**7.01**		1	02/22/2024 13:44	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**591**	µmhos/cm @25C	1	02/22/2024 13:44	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**434**	mg/L	1	02/23/2024 12:34	R343558
SW-846 9036 (TOTAL)								
Sulfate	NELAP	20		**50**	mg/L	2	02/23/2024 13:11	R343641
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.28**	mg/L	1	02/23/2024 13:30	R343485
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**8**	mg/L	1	02/23/2024 13:06	R343643
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0515**	mg/L	1	02/26/2024 19:04	219117
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/26/2024 19:04	219117
Boron	NELAP	0.0200		**0.0434**	mg/L	1	02/26/2024 19:04	219117
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/26/2024 19:04	219117
Calcium	NELAP	0.100		**96.7**	mg/L	1	02/26/2024 19:04	219117
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:04	219117
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:04	219117
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/26/2024 19:04	219117
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:04	219117
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/26/2024 19:04	219117
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 3:24	219117
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 3:24	219117
Selenium	NELAP	0.0010		**0.0011**	mg/L	5	02/28/2024 3:24	219117
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/28/2024 3:24	219117
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/23/2024 15:38	219103
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 02/22/2024 10:40

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.20**	ft	1	02/22/2024 10:40	R343702
Depth to water	*	-5.00		**5.43**	ft	1	02/22/2024 10:40	R343702
Depth to water from measuring point	*	0		**7.85**	ft	1	02/22/2024 10:40	R343702
Elevation of groundwater surface	*	0		**529.97**	ft	1	02/22/2024 10:40	R343702
Measuring Point Elevation	*	0		**537.82**	ft	1	02/22/2024 10:40	R343702
Measuring Point Height Above Land Surface	*	0		**2.42**	ft	1	02/22/2024 10:40	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**13**	NTU	1	02/22/2024 10:40	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.0**	°F	1	02/22/2024 10:40	R343702
SW-846 9040B								
pH, Field	*	1.00		**6.97**		1	02/22/2024 10:40	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**612**	µmhos/cm @25C	1	02/22/2024 10:40	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**380**	mg/L	2.5	02/23/2024 12:34	R343558
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**14**	mg/L	1	02/23/2024 13:14	R343641
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.37**	mg/L	1	02/23/2024 13:32	R343485
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**30**	mg/L	1	02/23/2024 13:14	R343643
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.119**	mg/L	1	02/26/2024 19:06	219117
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/26/2024 19:06	219117
Boron	NELAP	0.0200		**0.171**	mg/L	1	02/26/2024 19:06	219117
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/26/2024 19:06	219117
Calcium	NELAP	0.100		**61.4**	mg/L	1	02/26/2024 19:06	219117
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:06	219117
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:06	219117
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/26/2024 19:06	219117
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:06	219117
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/26/2024 19:06	219117
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 3:30	219117
Arsenic	NELAP	0.0010		**0.0068**	mg/L	5	02/28/2024 3:30	219117
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 3:30	219117
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/28/2024 3:30	219117
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/23/2024 15:51	219103
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power **Work Order:** 24010117

Client Project: Ash Pond Monitoring Wells **Report Date:** 18-Mar-24

Lab ID: 24010117-008 **Client Sample ID:** AP-7

Matrix: GROUNDWATER **Collection Date:** 02/26/2024 14:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**496.50**	ft	1	02/26/2024 14:20	R343702
Depth to water	*	-5.00		**8.42**	ft	1	02/26/2024 14:20	R343702
Depth to water from measuring point	*	0		**11.08**	ft	1	02/26/2024 14:20	R343702
Elevation of groundwater surface	*	0		**527.94**	ft	1	02/26/2024 14:20	R343702
Measuring Point Elevation	*	0		**539.02**	ft	1	02/26/2024 14:20	R343702
Measuring Point Height Above Land Surface	*	0		**2.66**	ft	1	02/26/2024 14:20	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**34**	NTU	1	02/26/2024 14:20	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.2**	°F	1	02/26/2024 14:20	R343702
SW-846 9040B								
pH, Field	*	1.00		**7.15**		1	02/26/2024 14:20	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**646**	µmhos/cm @25C	1	02/26/2024 14:20	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	100		**330**	mg/L	5	02/28/2024 7:46	R343743
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**17**	mg/L	1	02/28/2024 17:04	R343726
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.44**	mg/L	1	02/27/2024 9:22	R343589
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**42**	mg/L	1	02/28/2024 17:04	R343732
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.118**	mg/L	1	02/29/2024 16:41	219241
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/29/2024 16:41	219241
Boron	NELAP	0.0200		**0.173**	mg/L	1	02/29/2024 16:41	219241
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/29/2024 16:41	219241
Calcium	NELAP	0.100	B	**55.6**	mg/L	1	02/29/2024 16:41	219241
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/29/2024 16:41	219241
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/29/2024 16:41	219241
Lead	NELAP	0.0150	B	**< 0.0150**	mg/L	1	02/29/2024 16:41	219241
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/29/2024 16:41	219241
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/29/2024 16:41	219241
Sample result(s) for Ca exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
Contamination present in the MBLK for Pb. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/29/2024 0:00	219241
Arsenic	NELAP	0.0010		**0.0555**	mg/L	5	03/01/2024 12:00	219241
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/29/2024 0:00	219241
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	03/01/2024 4:48	219241
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	03/04/2024 17:37	219343
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-008
Client Sample ID: AP-7
Matrix: GROUNDWATER
Collection Date: 02/26/2024 14:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-009
Client Sample ID: AP-8
Matrix: GROUNDWATER
Collection Date: 02/21/2024 12:24

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.60**	ft	1	02/21/2024 12:24	R343702
Depth to water	*	-5.00		**1.58**	ft	1	02/21/2024 12:24	R343702
Depth to water from measuring point	*	0		**4.48**	ft	1	02/21/2024 12:24	R343702
Elevation of groundwater surface	*	0		**532.72**	ft	1	02/21/2024 12:24	R343702
Measuring Point Elevation	*	0		**537.20**	ft	1	02/21/2024 12:24	R343702
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	02/21/2024 12:24	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**6.7**	NTU	1	02/21/2024 12:24	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.3**	°F	1	02/21/2024 12:24	R343702
SW-846 9040B								
pH, Field	*	1.00		**6.83**		1	02/21/2024 12:24	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**861**	µmhos/cm @25C	1	02/21/2024 12:24	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**520**	mg/L	2.5	02/23/2024 10:04	R343558
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	02/22/2024 22:34	R343452
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.26**	mg/L	1	02/23/2024 13:23	R343485
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**24**	mg/L	1	02/22/2024 22:34	R343454
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.374**	mg/L	1	02/26/2024 19:07	219117
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/26/2024 19:07	219117
Boron	NELAP	0.0200		**0.0866**	mg/L	1	02/26/2024 19:07	219117
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/26/2024 19:07	219117
Calcium	NELAP	0.100		**99.3**	mg/L	1	02/26/2024 19:07	219117
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:07	219117
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:07	219117
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/26/2024 19:07	219117
Lithium	NELAP	0.0050		**0.0069**	mg/L	1	02/26/2024 19:07	219117
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/26/2024 19:07	219117
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 3:36	219117
Arsenic	NELAP	0.0010		**0.0426**	mg/L	5	02/28/2024 3:36	219117
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 3:36	219117
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/28/2024 3:36	219117
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/23/2024 15:54	219103
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-011
Client Sample ID: AP-10
Matrix: GROUNDWATER
Collection Date: 02/21/2024 14:36

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**499.43**	ft	1	02/21/2024 14:36	R343702
Depth to water	*	-5.00		**-0.28**	ft	1	02/21/2024 14:36	R343702
Depth to water from measuring point	*	0		**2.82**	ft	1	02/21/2024 14:36	R343702
Elevation of groundwater surface	*	0		**534.68**	ft	1	02/21/2024 14:36	R343702
Measuring Point Elevation	*	0		**537.50**	ft	1	02/21/2024 14:36	R343702
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	02/21/2024 14:36	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**34**	NTU	1	02/21/2024 14:36	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.7**	°F	1	02/21/2024 14:36	R343702
SW-846 9040B								
pH, Field	*	1.00		**6.65**		1	02/21/2024 14:36	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1010**	µmhos/cm @25C	1	02/21/2024 14:36	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**745**	mg/L	2.5	02/23/2024 10:05	R343558
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**96**	mg/L	5	02/22/2024 23:01	R343452
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.29**	mg/L	1	02/23/2024 13:25	R343485
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**27**	mg/L	1	02/22/2024 22:56	R343454
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.613**	mg/L	1	02/26/2024 19:09	219117
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/26/2024 19:09	219117
Boron	NELAP	0.0200		**3.71**	mg/L	1	02/26/2024 19:09	219117
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/26/2024 19:09	219117
Calcium	NELAP	0.100		**141**	mg/L	1	02/26/2024 19:09	219117
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:09	219117
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:09	219117
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/26/2024 19:09	219117
Lithium	NELAP	0.0050		**0.0090**	mg/L	1	02/26/2024 19:09	219117
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/26/2024 19:09	219117
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 3:42	219117
Arsenic	NELAP	0.0010		**0.0011**	mg/L	5	02/28/2024 3:42	219117
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 3:42	219117
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/28/2024 3:42	219117
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/23/2024 15:56	219103
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power **Work Order:** 24010117

Client Project: Ash Pond Monitoring Wells **Report Date:** 18-Mar-24

Lab ID: 24010117-015 **Client Sample ID:** AP-14

Matrix: GROUNDWATER **Collection Date:** 02/23/2024 10:25

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**508.40**	ft	1	02/23/2024 10:25	R343702
Depth to water	*	-5.00		**-1.08**	ft	1	02/23/2024 10:25	R343702
Depth to water from measuring point	*	0		**1.72**	ft	1	02/23/2024 10:25	R343702
Elevation of groundwater surface	*	0		**537.88**	ft	1	02/23/2024 10:25	R343702
Measuring Point Elevation	*	0		**539.60**	ft	1	02/23/2024 10:25	R343702
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	02/23/2024 10:25	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**24**	NTU	1	02/23/2024 10:25	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**52.5**	°F	1	02/23/2024 10:25	R343702
SW-846 9040B								
pH, Field	*	1.00		**6.93**		1	02/23/2024 10:25	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1530**	µmhos/cm @25C	1	02/23/2024 10:25	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1510**	mg/L	2.5	02/26/2024 10:03	R343638
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**679**	mg/L	20	02/28/2024 18:16	R343726
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.30**	mg/L	1	02/26/2024 13:07	R343547
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**82**	mg/L	5	02/28/2024 18:11	R343732
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0422**	mg/L	1	02/27/2024 17:40	219154
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/27/2024 17:40	219154
Boron	NELAP	0.200		**21.6**	mg/L	10	02/29/2024 14:02	219154
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/27/2024 17:40	219154
Calcium	NELAP	0.100		**263**	mg/L	1	02/27/2024 17:40	219154
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/27/2024 17:40	219154
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/27/2024 17:40	219154
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/27/2024 17:40	219154
Lithium	NELAP	0.0050		**0.0076**	mg/L	1	02/27/2024 17:40	219154
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/27/2024 17:40	219154
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	B	**< 0.0010**	mg/L	5	02/28/2024 16:10	219154
Arsenic	NELAP	0.0010		**0.0039**	mg/L	5	02/28/2024 16:10	219154
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 16:10	219154
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/28/2024 16:10	219154
Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/29/2024 17:20	219164
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24010117
Report Date: 18-Mar-24

Carrier: Tracy Carroll

Received By: AMD

Completed by: Amber Dilallo
On: 22-Feb-24

Reviewed by: Ellie Hopkins
On: 27-Feb-24

Pages to follow: Chain of custody 6 Extra pages included 50

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 3.3
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

pH strip #90719. - amberdilallo - 2/22/2024 8:40:42 AM

Samples were received on 2/22/24 at 15:40 on ice [7.3C - LTG5]. pH strip #90719. Collection date per Tracy Carroll. - amberdilallo - 2/22/2024 4:41:18 PM

Samples were received on 2/23/24 at 13:07 on ice [6.7C - LTG#7]. pH strip #90719. Additional Nitric Acid (96331) preservative was needed for AP-4 & AP-14 upon arrival at the laboratory. - nickreed - 2/23/2024 2:35:40 PM

Samples were received on 2/26/24 at 18:45 on ice [5.3c - LTG5]. pH strip #90719. - amberdilallo - 2/27/2024 8:11:24 AM

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24010117

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 3.3 °C
Preserved in: [ ] LAB [X] FIELD FOR LAB USE ONLY LTGS
LAB NOTES: 40719 SM 2/22/24

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER: Ash Pond Monitoring Wells
SAMPLE COLLECTOR'S NAME: TCarroll

RESULTS REQUESTED: [✓] Standard [ ] 1-2 Day (100% Surcharge) [ ] Other ____ [ ] 3 Day (50% Surcharge)
BILLING INSTRUCTIONS:

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24010117-001	RW-3	2/21/24 1138	Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	AP-1	2/21/24 1341	Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	AP-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	AP-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	AP-4		Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	AP-5		Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	AP-6		Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	AP-7		Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AP-8	2/21/24 1224	Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AP-9		Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	AP-10	2/21/24 1436	Groundwater	1	2								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
Tracy Carroll	2/21/24 1715	[illegible]	2/21/24 1715

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 1 of 1 Workorder # 24010117

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 7.3 °C
Preserved in: ☐ LAB ☒ FIELD
FOR LAB USE ONLY
LAB NOTES: 9019 Dup Wapy

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring
Date per Tracy Carroll. SMM 2/22/24

PROJECT NAME/NUMBER: Ash Pond Monitoring Wells
SAMPLE COLLECTOR'S NAME: TCarrd

RESULTS REQUESTED: ☑ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ☐ 3 Day (50% Surcharge)
BILLING INSTRUCTIONS:

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	CIF SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24010117-001	RW-3		Groundwater	1	2								✔	✔	✔	✔	✔	✔
002	AP-1		Groundwater	1	2								✔	✔	✔	✔	✔	✔
003	AP-2	2/22/24 1124	Groundwater	1	2								✔	✔	✔	✔	✔	✔
004	AP-3	1203	Groundwater	1	2								✔	✔	✔	✔	✔	✔
005	AP-4		Groundwater	1	2								✔	✔	✔	✔	✔	✔
006	AP-5	1344	Groundwater	1	2								✔	✔	✔	✔	✔	✔
007	AP-6	1540	Groundwater	1	2								✔	✔	✔	✔	✔	✔
008	AP-7		Groundwater	1	2								✔	✔	✔	✔	✔	✔
009	AP-8		Groundwater	1	2								✔	✔	✔	✔	✔	✔
010	AP-9		Groundwater	1	2								✔	✔	✔	✔	✔	✔
011	AP-10		Groundwater	1	2								✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
Tracy Carroll	2/22/24 3:40	Emily Sackett	2/22/24 1540

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24010117

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [x] ICE [ ] BLUE ICE [ ] NO ICE 6.7 °C 7
Preserved in: [x] LAB [ ] FIELD
FOR LAB USE ONLY
LAB NOTES: ph ✓ 9071a added HNO3 (96331) ES 2/23/24 to 2 liters

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [x] No
Are these samples known to be hazardous? [ ] Yes [x] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [x] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
TCarroll

RESULTS REQUESTED
[x] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24010117-001	RW-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	AP-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	AP-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	AP-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	AP-4	2/23/24 1121	Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	AP-5		Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	AP-6		Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	AP-7		Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AP-8		Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AP-9		Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	AP-10		Groundwater	1	2								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
Tracy Carroll	2/23/24 1:07	Whitney Dunger	2/23/24 1:07

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24010117

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
TCarrell

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers									INDICATE ANALYSIS REQUESTED												
				UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity								
24010117 01	AP-11		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
02	AP-12		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
03	AP-13		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
04	AP-14	2/23/24 1025	Groundwater	1	2								✓	✓	✓	✓	✓	✓								
			Groundwater																							
			Groundwater																							
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			Groundwater																							
			Groundwater																							

Relinquished By	Date/Time	Received By	Date/Time
Tracy Carrell	2/23/24 1:07	Whitney Lewis	2/23/24 1:35

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24010117

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 5.3 °C
Preserved in: ☐ LAB ☑ FIELD FOR LAB USE ONLY LTG 5
LAB NOTES: 901A SM 2/27/24

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER: Ash Pond Monitoring Wells
SAMPLE COLLECTOR'S NAME: TCarroll

RESULTS REQUESTED: ☑ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ☐ 3 Day (50% Surcharge)
BILLING INSTRUCTIONS:

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24010117-001	RW-3		Groundwater	1	2								✔	✔	✔	✔	✔	✔
002	AP-1		Groundwater	1	2								✔	✔	✔	✔	✔	✔
003	AP-2		Groundwater	1	2								✔	✔	✔	✔	✔	✔
004	AP-3		Groundwater	1	2								✔	✔	✔	✔	✔	✔
005	AP-4		Groundwater	1	2								✔	✔	✔	✔	✔	✔
006	AP-5		Groundwater	1	2								✔	✔	✔	✔	✔	✔
007	AP-6		Groundwater	1	2								✔	✔	✔	✔	✔	✔
008	AP-7	2/26/24 1420	Groundwater	1	2								✔	✔	✔	✔	✔	✔
009	AP-8		Groundwater	1	2								✔	✔	✔	✔	✔	✔
010	AP-9	2/26/24 1350	Groundwater	1	2								✔	✔	✔	✔	✔	✔
011	AP-10		Groundwater	1	2								✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
Tracy Carroll	2/26/24 1845	[illegible]	2/26/24 1845

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24010117

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:
AP-11, AP-12 & AP-13 filtered per Tracy Carroll SM 2/27/24

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
TCarroll

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24010117 01	AP-11	2/26/24 1108	Groundwater	1	2								✔	✔	✔	✔	✔	✔
02	AP-12	1200	Groundwater	1	2								✔	✔	✔	✔	✔	✔
03	AP-13	1234	Groundwater	1	2								✔	✔	✔	✔	✔	✔
04	AP-14		Groundwater	1	2								✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
Tracy Carroll	2/26/24 1845	SM Dollins	2/26/24 1845

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Site Samping Event: CWLP Ash Pond- 1Q24
LIMS Workorder: 24010117
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
CWLP- Ash Pond- 1Q 2024

			Weather				Well Condition				
WO Sample	**Well ID**	**Program/ Sample Type**	**Temp (°F)**	**Precipitation**	**Wind Direction**	**Sky**	**Well Pad**	**Casing**	**Protective Cover**	**Reference Mark/ ID**	**Well Locked**
001	RW-3	Groundwater Sample	57.0	None	N	Clear	Good	Good	Good	Yes	**No**
002	AP-1	Groundwater Sample	59.0	None	N	Clear	Good	Good	Good	**No**	**No**
003	AP-2	Groundwater Sample	60.0	None	W	Cloudy	Good	Good	Good	**No**	**No**
004	AP-3	Groundwater Sample	62.0	None	W	Clear	Good	Good	Good	Yes	**No**
005	AP-4	Groundwater Sample	50.0	None	SE	Clear	Good	Good	Good	Yes	**No**
006	AP-5	Groundwater Sample	63.0	None	W	Clear	Good	Good	Good	Yes	**No**
007	AP-6	Groundwater Sample	60.0	None	W	Cloudy	Good	Good	Good	**No**	**No**
008	AP-7	Groundwater Sample	74.0	None	N	Clear	Good	Good	Good	**No**	**No**
009	AP-8	Groundwater Sample	57.0	None	N	Clear	Good	Good	Good	**No**	**No**
010	AP-9	Groundwater Sample	74.0	None	N	Clear	Good	Good	Good	**No**	**No**
011	AP-10	Groundwater Sample	60.0	None	N	Clear	Good	Good	Good	**No**	**No**
012	AP-11	Groundwater Sample	64.0	None	N	Clear	Good	Good	Good	**No**	**No**
013	AP-12	Groundwater Sample	67.0	None	N	Clear	Good	Good	Good	**No**	**No**
014	AP-13	Groundwater Sample	70.0	None	N	Clear	Good	Good	Good	**No**	**No**
015	AP-14	Groundwater Sample	45.0	None	SE	Clear	Good	Good	Good	Yes	**No**

Site Samping Event: CWLP Ash Pond- 1Q24
LIMS Workorder: 24010117
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
CWLP- Ash Pond- 1Q 2024

		GW Level Measurement				Purge Activities							
WO Sample	**Well ID**	**Sampler Initials**	**Date/Time**	**DTW (ft)**	**DTB (ft)**	**Sampler Initials**	**Purge Date**	**Purge Start Time**	**Purge End Time**	**Purging Device**	**Well Diameter (in)**	**Actual Volume Purged (L)**	**Purge Rate (mL/min)**
001	RW-3	DC	2/21/24 11:20	9.10	44.01	DC	2/21/2024	11:21	11:38	Bladder Pump	2"	4.0	235.3
002	AP-1	DC	2/21/24 12:42	8.48	31.08	DC	2/21/2024	13:27	13:41	Bladder Pump	2"	3.0	214.3
003	AP-2	DC	2/22/24 10:58	7.11	21.33	DC	2/22/2024	10:59	11:24	Bladder Pump	2"	6.0	240.0
004	AP-3	DC	2/22/24 11:44	9.32	-	DC	2/22/2024	11:45	12:03	Bladder Pump	2"	4.0	222.2
005	AP-4	DC	2/23/24 10:46	9.04	60.41	DC	2/23/2024	10:47	11:21	Bladder Pump	2"	9.0	264.7
006	AP-5	DC	2/22/24 13:21	15.95	31.27	DC	2/22/2024	13:22	13:44	Bladder Pump	2"	5.0	227.3
007	AP-6	DC	2/22/24 10:22	7.85	39.62	DC	2/22/2024	10:24	10:40	Bladder Pump	2"	3.0	187.5
008	AP-7	DC	2/26/24 14:04	11.08	42.52	DC	2/26/2024	14:05	14:20	Bladder Pump	2"	3.0	200.0
009	AP-8	DC	2/21/24 12:07	4.48	39.60	DC	2/21/2024	12:08	12:24	Peristaltic Pump	2"	4.0	250.0
010	AP-9	DC	2/26/24 13:27	12.05	39.60	DC	2/26/2024	13:30	13:50	Peristaltic Pump	2"	5.0	250.0
011	AP-10	DC	2/21/24 14:04	2.82	38.07	DC	2/21/2024	14:05	14:36	Peristaltic Pump	2"	6.0	193.5
012	AP-11	DC	2/26/24 10:46	14.42	22.95	DC	2/26/2024	10:50	11:08	Peristaltic Pump	2"	4.0	222.2
013	AP-12	DC	2/26/24 11:22	17.35	30.40	DC	2/26/2024	11:22	12:00	Peristaltic Pump	2"	8.0	210.5
014	AP-13	DC	2/26/24 12:11	17.10	31.00	DC	2/26/2024	12:12	12:34	Peristaltic Pump	2"	6.0	272.7
015	AP-14	DC	2/23/24 9:57	1.72	31.20	DC	2/23/2024	09:58	10:25	Peristaltic Pump	2"	6.0	222.2

Site Samping Event: CWLP Ash Pond- 1Q24
LIMS Workorder: 24010117
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
CWLP- Ash Pond- 1Q 2024

		Sampling Activities and Observations									
WO Sample	**Well ID**	**Sampler Initials**	**Date**	**Time**	**Sampling Method**	**Field Filtered**	**Appearance**	**Odor**	**Color**	**Post-Sample DTW (ft)**	**Drawdown (ft)**
001	RW-3	TAC	02/21/24	11:38	Low Flow	Yes	Clear	None	None	13.25	**4.15**
002	AP-1	TAC	02/21/24	13:41	Low Flow	No	Clear	None	None	9.00	**0.52**
003	AP-2	TAC	02/22/24	11:24	Low Flow	No	Clear	None	None	7.20	0.09
004	AP-3	TAC	02/22/24	12:03	Low Flow	No	Clear	None	None	9.68	0.36
005	AP-4	TAC	02/23/24	11:21	Low Flow	No	Clear	None	None	9.21	0.17
006	AP-5	TAC	02/22/24	13:44	Low Flow	No	Clear	None	None	17.45	**1.5**
007	AP-6	TAC	02/22/24	10:40	Low Flow	No	Clear	None	None	12.45	**4.6**
008	AP-7	TAC	02/26/24	14:20	Low Flow	No	Clear	None	None	13.29	**2.21**
009	AP-8	TAC	02/21/24	12:24	Low Flow	No	Clear	None	None	4.84	0.36
010	AP-9	TAC	02/26/24	13:50	Low Flow	No	Clear	None	None	16.30	**4.25**
011	AP-10	TAC	02/21/24	14:36	Low Flow	No	Clear	Slight	None	3.11	0.29
012	AP-11	TAC	02/26/24	11:08	Low Flow	No	Clear	None	None	14.95	**0.53**
013	AP-12	TAC	02/26/24	12:00	Low Flow	No	Slightly cloudy	Slight	light grey	18.64	**1.29**
014	AP-13	TAC	02/26/24	12:34	Low Flow	No	Clear	Slight	None	18.86	**1.76**
015	AP-14	TAC	02/23/24	10:25	Low Flow	No	Cloudy	None	None	1.90	0.18

Site Samping Event: CWLP Ash Pond- 1Q24
LIMS Workorder: 24010117
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
CWLP- Ash Pond- 1Q 2024

WO Sample	Well ID	COMMENTS
001	RW-3	
002	AP-1	
003	AP-2	
004	AP-3	
005	AP-4	
006	AP-5	
007	AP-6	
008	AP-7	
009	AP-8	
010	AP-9	
011	AP-10	
012	AP-11	
013	AP-12	
014	AP-13	
015	AP-14	

Site Samping Event: CWLP Ash Pond- 1Q24
LIMS Workorder: 24010117
Technician(s): DC, JC, TC, BG

Stabilized Field Parameters Summary
CWLP- Ash Pond- 1Q 2024

Well ID	Date	Time	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	LIMS ID
RW-3	2/21/2024	11:38	14.0	57.2	7.10	647.6	0.78	124.34	-134.4	9.10	24010117-001A
AP-1	2/21/2024	13:41	15.0	59.0	6.51	1,473.8	1.00	28.16	-3.1	8.48	24010117-002A
AP-2	2/22/2024	11:24	13.1	55.6	6.41	1,190.1	0.56	20.20	115.3	7.11	24010117-003A
AP-3	2/22/2024	12:03	12.8	55.0	6.55	1,048.2	0.65	21.97	78.1	9.32	24010117-004A
AP-4	2/23/2024	11:21	15.5	59.9	6.86	847.4	0.50	38.35	-53.3	9.04	24010117-005A
AP-5	2/22/2024	13:44	14.0	57.2	7.01	590.8	2.26	0.66	63.7	15.95	24010117-006A
AP-6	2/22/2024	10:40	12.8	55.0	6.97	612.2	3.76	12.97	113.0	7.85	24010117-007A
AP-7	2/26/2024	14:20	14.0	57.2	7.15	646.0	1.56	33.97	-88.6	11.08	24010117-008A
AP-8	2/21/2024	12:24	13.5	56.3	6.83	860.7	0.74	6.66	-76.0	4.48	24010117-009A
AP-9	2/26/2024	13:50	15.1	59.2	6.82	813.3	1.06	23.11	-49.8	12.05	24010117-010A
AP-10	2/21/2024	14:36	13.7	56.7	6.65	1,006.6	2.23	34.31	-18.7	2.82	24010117-011A
AP-11	2/26/2024	11:08	12.8	55.0	6.45	1,103.0	1.12	5.21	86.7	14.42	24010117-012A
AP-12	2/26/2024	12:00	14.2	57.6	6.53	1,396.3	0.67	27.25	-25.8	17.35	24010117-013A
AP-13	2/26/2024	12:34	13.8	56.8	6.73	709.8	0.87	10.08	-47.2	17.10	24010117-014A
AP-14	2/23/2024	10:25	11.4	52.5	6.93	1,529.4	1.44	24.44	97.8	1.72	24010117-015A

Site Samping Event: CWLP Ash Pond- 1Q24
LIMS Workorder: 24010117
Technician(s): DC, JC, TC, BG

Groundwater Sampling Form- Groundwater Quality Parameters
CWLP- Ash Pond- 1Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
RW-3	2/21/2024	11:32	9.10	13.9	57.0	7.11	648.4	0.89	46.09	-126.70
RW-3	2/21/2024	11:35	9.10	13.9	57.0	7.10	647.6	0.83	90.21	-131.90
RW-3	2/21/2024	11:38	9.10	14.0	57.2	7.10	647.6	0.78	124.34	-134.40

Site Samping Event: CWLP Ash Pond- 1Q24
LIMS Workorder: 24010117
Technician(s): DC, JC, TC, BG

Groundwater Sampling Form- Groundwater Quality Parameters
CWLP- Ash Pond- 1Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-1	2/21/2024	13:35	8.48	14.8	58.6	6.51	1,441.3	1.21	29.57	50.10
AP-1	2/21/2024	13:38	8.48	14.7	58.5	6.51	1,459.6	1.04	30.53	22.00
AP-1	2/21/2024	13:41	8.48	15.0	59.0	6.51	1,473.8	1.00	28.16	-3.10

Site Samping Event: CWLP Ash Pond- 1Q24
LIMS Workorder: 24010117
Technician(s): DC, JC, TC, BG

Groundwater Sampling Form- Groundwater Quality Parameters
CWLP- Ash Pond- 1Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-2	2/22/2024	11:15	7.11	12.8	55.0	6.42	1,189.9	0.69	66.56	119.50
AP-2	2/22/2024	11:18	7.11	12.9	55.2	6.42	1,185.7	0.64	39.12	118.10
AP-2	2/22/2024	11:21	7.11	12.9	55.2	6.42	1,187.5	0.60	30.02	116.60
AP-2	2/22/2024	11:24	7.11	13.1	55.6	6.41	1,190.1	0.56	20.20	115.30

Site Samping Event: CWLP Ash Pond- 1Q24
LIMS Workorder: 24010117
Technician(s): DC, JC, TC, BG

Groundwater Sampling Form- Groundwater Quality Parameters
CWLP- Ash Pond- 1Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-3	2/22/2024	11:54	9.32	12.6	54.7	6.61	1,022.4	1.28	128.69	98.60
AP-3	2/22/2024	11:57	9.32	12.7	54.9	6.57	1,030.4	0.91	56.27	91.00
AP-3	2/22/2024	12:00	9.32	12.8	55.0	6.56	1,040.2	0.75	39.31	84.30
AP-3	2/22/2024	12:03	9.32	12.8	55.0	6.55	1,048.2	0.65	21.97	78.10

Site Samping Event: CWLP Ash Pond- 1Q24
LIMS Workorder: 24010117
Technician(s): DC, JC, TC, BG

Groundwater Sampling Form- Groundwater Quality Parameters
CWLP- Ash Pond- 1Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-4	2/23/2024	11:12	9.04	15.5	59.9	6.86	848.3	0.58	24.99	-12.80
AP-4	2/23/2024	11:15	9.04	15.5	59.9	6.86	849.4	0.54	34.01	-29.30
AP-4	2/23/2024	11:18	9.04	15.5	59.9	6.86	848.1	0.52	28.31	-42.70
AP-4	2/23/2024	11:21	9.04	15.5	59.9	6.86	847.4	0.50	38.35	-53.30

Site Samping Event: CWLP Ash Pond- 1Q24
LIMS Workorder: 24010117
Technician(s): DC, JC, TC, BG

Groundwater Sampling Form- Groundwater Quality Parameters
CWLP- Ash Pond- 1Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-5	2/22/2024	13:35	15.95	14.1	57.4	7.07	590.0	2.93	2.05	62.70
AP-5	2/22/2024	13:38	15.95	13.9	57.0	7.04	589.9	2.61	1.74	63.20
AP-5	2/22/2024	13:41	15.95	13.8	56.8	7.03	589.2	2.38	1.04	63.60
AP-5	2/22/2024	13:44	15.95	14.0	57.2	7.01	590.8	2.26	0.66	63.70

Site Samping Event: CWLP Ash Pond- 1Q24
LIMS Workorder: 24010117
Technician(s): DC, JC, TC, BG

Groundwater Sampling Form- Groundwater Quality Parameters
CWLP- Ash Pond- 1Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-6	2/22/2024	10:31	7.85	12.7	54.9	6.87	676.1	2.30	15.94	119.40
AP-6	2/22/2024	10:34	7.85	12.8	55.0	6.92	634.6	3.12	14.77	117.00
AP-6	2/22/2024	10:37	7.85	12.8	55.0	6.95	618.1	3.63	14.39	114.60
AP-6	2/22/2024	10:40	7.85	12.8	55.0	6.97	612.2	3.76	12.97	113.00

Site Samping Event: CWLP Ash Pond- 1Q24
LIMS Workorder: 24010117
Technician(s): DC, JC, TC, BG

Groundwater Sampling Form- Groundwater Quality Parameters
CWLP- Ash Pond- 1Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-7	2/26/2024	14:14	11.08	14.5	58.1	7.19	666.9	2.50	15.92	-43.90
AP-7	2/26/2024	14:17	11.08	14.0	57.2	7.15	651.6	1.80	30.93	-71.30
AP-7	2/26/2024	14:20	11.08	14.0	57.2	7.15	646.0	1.56	33.97	-88.60

Site Samping Event: CWLP Ash Pond- 1Q24
LIMS Workorder: 24010117
Technician(s): DC, JC, TC, BG

Groundwater Sampling Form- Groundwater Quality Parameters
CWLP- Ash Pond- 1Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-8	2/21/2024	12:18	4.48	13.5	56.3	6.84	857.8	0.91	6.45	-50.90
AP-8	2/21/2024	12:21	4.48	13.5	56.3	6.83	860.3	0.82	7.31	-66.90
AP-8	2/21/2024	12:24	4.48	13.5	56.3	6.83	860.7	0.74	6.66	-76.00

Site Samping Event: CWLP Ash Pond- 1Q24
LIMS Workorder: 24010117
Technician(s): DC, JC, TC, BG

Groundwater Sampling Form- Groundwater Quality Parameters
CWLP- Ash Pond- 1Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-10	2/21/2024	14:30	2.82	13.6	56.5	6.65	999.5	2.69	40.08	0.20
AP-10	2/21/2024	14:33	2.82	13.7	56.7	6.65	1,006.1	2.48	36.94	-10.20
AP-10	2/21/2024	14:36	2.82	13.7	56.7	6.65	1,006.6	2.23	34.31	-18.70

Site Samping Event: CWLP Ash Pond- 1Q24
LIMS Workorder: 24010117
Technician(s): DC, JC, TC, BG

Groundwater Sampling Form- Groundwater Quality Parameters
CWLP- Ash Pond- 1Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-14	2/23/2024	10:19	1.72	11.2	52.2	6.92	1,539.7	1.50	36.92	102.60
AP-14	2/23/2024	10:22	1.72	11.2	52.2	6.93	1,529.0	1.33	23.39	100.00
AP-14	2/23/2024	10:25	1.72	11.4	52.5	6.93	1,529.4	1.44	24.44	97.80

Summit Environmental Technologies, Inc.
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Website: http://www.settek.com

March 15, 2024

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 24010117

Dear Shelly Hennessy:

Order No.: 24030039

Summit Environmental Technologies, Inc. received 15 sample(s) on 2/29/2024 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Case Narrative

WO#: **24030039**
Date: **3/15/2024**

CLIENT: TEKLAB Inc,
Project: 24010117

WorkOrder Narrative:
24030039: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, In
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-44
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **24030039**
Date: **3/15/2024**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Website: http://www.settek.com

Workorder Sample Summary

WO#: **24030039**

15-Mar-24

CLIENT: TEKLAB Inc,
Project: 24010117

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24030039-001	24010117-001		2/21/2024 11:38:00 AM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-002	24010117-002		2/21/2024 1:41:00 PM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-003	24010117-003		2/22/2024 11:24:00 AM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-004	24010117-004		2/22/2024 12:03:00 PM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-005	24010117-005		2/23/2024 11:21:00 AM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-006	24010117-006		2/22/2024 1:44:00 PM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-007	24010117-007		2/22/2024 10:40:00 AM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-008	24010117-008		2/26/2024 2:20:00 PM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-009	24010117-009		2/21/2024 12:24:00 PM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-010	24010117-010		2/26/2024 1:50:00 PM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-011	24010117-011		2/21/2024 2:36:00 PM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-012	24010117-012		2/26/2024 11:08:00 AM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-013	24010117-013		2/26/2024 12:00:00 PM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-014	24010117-014		2/26/2024 12:34:00 PM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-015	24010117-015		2/23/2024 10:25:00 AM	2/29/2024 12:25:00 PM	Non-Potable Water

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Website: http://www.settek.com

DATES REPORT

WO#: **24030039**

15-Mar-24

Client: TEKLAB Inc,

Project: 24010117

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24030039-001A	24010117-001	2/21/2024 11:38:00 AM	Non-Potable Water	Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-002A	24010117-002	2/21/2024 1:41:00 PM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-003A	24010117-003	2/22/2024 11:24:00 AM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-004A	24010117-004	2/22/2024 12:03:00 PM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-005A	24010117-005	2/23/2024 11:21:00 AM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-006A	24010117-006	2/22/2024 1:44:00 PM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-007A	24010117-007	2/22/2024 10:40:00 AM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-008A	24010117-008	2/26/2024 2:20:00 PM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM

Original

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC. Analytical Laboratories

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DATES REPORT

WO#: **24030039**

15-Mar-24

Client: TEKLAB Inc,

Project: 24010117

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24030039-008A	24010117-008	2/26/2024 2:20:00 PM	Non-Potable Water	Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-009A	24010117-009	2/21/2024 12:24:00 PM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-010A	24010117-010	2/26/2024 1:50:00 PM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-011A	24010117-011	2/21/2024 2:36:00 PM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-012A	24010117-012	2/26/2024 11:08:00 AM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-013A	24010117-013	2/26/2024 12:00:00 PM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-014A	24010117-014	2/26/2024 12:34:00 PM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-015A	24010117-015	2/23/2024 10:25:00 AM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM

Original

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Analytical Report

(consolidated)

WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,

Collection Date: 2/21/2024 11:38:00 AM

Project: 24010117

Lab ID: 24030039-001

Matrix: NON-POTABLE WATER

Client Sample ID: 24010117-001

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.340	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.260	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,

Collection Date: 2/21/2024 1:41:00 PM

Project: 24010117

Lab ID: 24030039-002

Matrix: NON-POTABLE WATER

Client Sample ID: 24010117-002

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.410	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.340	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,

Collection Date: 2/22/2024 11:24:00 AM

Project: 24010117

Lab ID: 24030039-003

Matrix: NON-POTABLE WATER

Client Sample ID: 24010117-003

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.410	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0600	1	3/11/2024 10:03:00 AM
Yield	0.980					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.350	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,

Collection Date: 2/22/2024 12:03:00 PM

Project: 24010117

Lab ID: 24030039-004

Matrix: NON-POTABLE WATER

Client Sample ID: 24010117-004

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.320	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0500	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.270	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,

Collection Date: 2/23/2024 11:21:00 AM

Project: 24010117

Lab ID: 24030039-005

Matrix: NON-POTABLE WATER

Client Sample ID: 24010117-005

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.470	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)				**E903.0**		**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.110	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)				**E904.0**		**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.360	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,

Collection Date: 2/22/2024 1:44:00 PM

Project: 24010117

Lab ID: 24030039-006

Matrix: NON-POTABLE WATER

Client Sample ID: 24010117-006

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.390	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0200	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.370	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

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WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,

Collection Date: 2/22/2024 10:40:00 AM

Project: 24010117

Lab ID: 24030039-007

Matrix: NON-POTABLE WATER

Client Sample ID: 24010117-007

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.320	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0500	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.270	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,

Collection Date: 2/26/2024 2:20:00 PM

Project: 24010117

Lab ID: 24030039-008

Matrix: NON-POTABLE WATER

Client Sample ID: 24010117-008

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.530	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0900	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.440	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,

Collection Date: 2/21/2024 12:24:00 PM

Project: 24010117

Lab ID: 24030039-009

Matrix: NON-POTABLE WATER

Client Sample ID: 24010117-009

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.540	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.120	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.420	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,

Collection Date: 2/21/2024 2:36:00 PM

Project: 24010117

Lab ID: 24030039-011

Matrix: NON-POTABLE WATER

Client Sample ID: 24010117-011

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.550	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.110	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.440	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,

Collection Date: 2/23/2024 10:25:00 AM

Project: 24010117

Lab ID: 24030039-015

Matrix: NON-POTABLE WATER

Client Sample ID: 24010117-015

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.420	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.350	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24030039**

15-Mar-24

Client: TEKLAB Inc,
Project: 24010117 **BatchID:** **73522**

Sample ID: **MB-73522**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **3/5/2024**	RunNo: **181655**
Client ID: **PBW**	Batch ID: **73522**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/8/2024**	SeqNo: **4923941**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-73522**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **3/5/2024**	RunNo: **181655**
Client ID: **LCSW**	Batch ID: **73522**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/8/2024**	SeqNo: **4923942**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.32	1.00	5.000	0	66.4	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-73522**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **3/5/2024**	RunNo: **181655**
Client ID: **LCSS02**	Batch ID: **73522**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/8/2024**	SeqNo: **4923943**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.49	1.00	5.000	0	69.8	50	130	3.320	4.99	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **24030039**

15-Mar-24

Client: TEKLAB Inc,
Project: 24010117 **BatchID:** **73522**

Sample ID: **RLC-73522**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **3/5/2024**	RunNo: **181655**
Client ID: **BatchQC**	Batch ID: **73522**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/8/2024**	SeqNo: **4923945**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.01	1.00	1.000	0	101	50	150				
Yield	1.00			0	0						

Sample ID: **RLCD-73522**	SampType: **RLC**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **3/5/2024**	RunNo: **181655**
Client ID: **BatchQC**	Batch ID: **73522**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/8/2024**	SeqNo: **4923946**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00	1.000	0	70.0	50	150				
Yield	1.00			0	0						

Sample ID: **24030092-001ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **3/5/2024**	RunNo: **181655**
Client ID: **BatchQC**	Batch ID: **73522**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/8/2024**	SeqNo: **4923950**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **24030039**

15-Mar-24

Client: TEKLAB Inc,
Project: 24010117 **BatchID:** **73522**

Sample ID: **24030092-002ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **3/5/2024** RunNo: **181655**
Client ID: **BatchQC** Batch ID: **73522** TestNo: **E904.0** **E903-904** Analysis Date: **3/8/2024** SeqNo: **4923952**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	2.41	1.00		0	0			2.380	1.25	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **24030039**

15-Mar-24

Client: TEKLAB Inc,
Project: 24010117 **BatchID:** **73522**

Sample ID: **MB-73522**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **3/5/2024**	RunNo: **181663**
Client ID: **PBW**	Batch ID: **73522**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/11/2024**	SeqNo: **4924195**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-73522**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **3/5/2024**	RunNo: **181663**
Client ID: **LCSW**	Batch ID: **73522**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/11/2024**	SeqNo: **4924196**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.34	1.00	5.000	0	107	70	130				

Sample ID: **LCSD-73522**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **3/5/2024**	RunNo: **181663**
Client ID: **LCSS02**	Batch ID: **73522**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/11/2024**	SeqNo: **4924197**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.64	1.00	5.000	0	92.8	70	130	5.340	14.0	20	

Sample ID: **RLC-73522**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **3/5/2024**	RunNo: **181663**
Client ID: **BatchQC**	Batch ID: **73522**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/11/2024**	SeqNo: **4924199**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24030039**

15-Mar-24

Client: TEKLAB Inc,
Project: 24010117 **BatchID:** **73522**

Sample ID: **RLC-73522** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **3/5/2024** RunNo: **181663**
Client ID: **BatchQC** Batch ID: **73522** TestNo: **E903.0** **E903-904** Analysis Date: **3/11/2024** SeqNo: **4924199**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00	1.000	0	91.0	50	150				

Sample ID: **RLCD-73522** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **3/5/2024** RunNo: **181663**
Client ID: **BatchQC** Batch ID: **73522** TestNo: **E903.0** **E903-904** Analysis Date: **3/11/2024** SeqNo: **4924200**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00	1.000	0	78.0	50	150				

Sample ID: **24030092-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **3/5/2024** RunNo: **181663**
Client ID: **BatchQC** Batch ID: **73522** TestNo: **E903.0** **E903-904** Analysis Date: **3/11/2024** SeqNo: **4924202**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Pg ___ of ___ 2403 0039

TEKLAB, INC. Chain of Custody

SN ~~2402~~

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

11.0-0.2=10.8°C, 11.2-0.2=11.0°C
13.5-0.2=13.3°C

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: Teklab Sampler | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium (226, 228, and combined) on your standard turnaround time.
Receipt summary requested.

Project# 24010117

Contact: Shelly Hennessy | Email: shennessy@teklabinc.com
Requested Due Date: 20 business days or less | Billing/PO: 35852 | Phone: 618 344 1004 ext 36

State of Origin: IL

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Changes to analysis/methods must be approved by Teklab, Inc.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226	Radium 228	Combined Radium		cpm				pH			
	24010117-001	2/21/24 1138	HNO3	Groundwater	☑	☑	☑	☐	~~15~~	18	☐	☐	☐	☐	☐	☐
	24010117-002	2/21/24 1341	HNO3	Groundwater	☑	☑	☑	☐	~~18~~	15	☐	☐	☐	☐	☐	☐
	24010117-003	2/22/24 1124	HNO3	Groundwater	☑	☑	☑	☐	18		☐	☐	☐	☐	☐	☐
	24010117-004	2/22/24 1203	HNO3	Groundwater	☑	☑	☑	☐	18	34	☐	☐	☐	☐	☐	☐
	24010117-005	2/23/24 1121	HNO3	Groundwater	☑	☑	☑	☐	~~3~~	18	☐	☐	☐	☐	☐	☐
	24010117-006	2/22/24 1344	HNO3	Groundwater	☑	☑	☑	☐	~~3~~	3	☐	☐	☐	☐	☐	☐
	24010117-007	2/22/24 1040	HNO3	Groundwater	☑	☑	☑	☐	~~2~~ 15		☐	☐	☐	☐	☐	☐
	24010117-008	2/26/24 1420	HNO3	Groundwater	☑	☑	☑	☐	15		☐	☐	☐	☐	☐	☐
	24010117-009	2/21/24 1224	HNO3	Groundwater	☑	☑	☑	☐	~~38~~	19	☐	☐	☐	☐	☐	☐
	24010117-010	2/26/24 1350	HNO3	Groundwater	☑	☑	☑	☐	~~23~~	38	☐	☐	☐	☐	☐	☐
	24010117-011	2/21/24 1436	HNO3	Groundwater	☑	☑	☑	☐	~~23~~		☐	☐	☐	☐	☐	☐

2/22 2hrs

*Relinquished By	Date/Time	Received By	Date/Time
[illegible]	2/23/24 1700	[illegible]	2/29/24, 1225

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: Teklab Sampler | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium (226, 228, and combined) on your standard turnaround time.
Receipt summary requested.

Project# 24010117

Contact: Shelly Hennessy | Email: shennessy@teklabinc.com
Requested Due Date: 20 business days or less | Billing/PO: 35852 | Phone: 618 344 1004 ext 36

State of Origin: IL

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Changes to analysis/methods must be approved by Teklab, Inc.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226	Radium 228	Combined Radium		cpm			pH				
	24010117-012	2/26/24 1108	HNO3	Groundwater	✔	✔	✔	☐	B	☐	☐	1	☐	☐	☐	☐
	24010117-013	2/26/24 1200	HNO3	Groundwater	✔	✔	✔	☐	23	☐	☐	1	☐	☐	☐	☐
	24010117-014	2/26/24 1234	HNO3	Groundwater	✔	✔	✔	☐	31	☐	☐	1	☐	☐	☐	☐
	24010117-015	2/23/24 1025	HNO3	Groundwater	✔	✔	✔	☐	27	☐	☐	1	☐	☐	☐	☐
			HNO3	Groundwater	☐	☐	☐	☐		☐	☐		☐	☐	☐	☐
			HNO3	Groundwater	☐	☐	☐	☐		☐	☐		☐	☐	☐	☐
			HNO3	Groundwater	☐	☐	☐	☐		☐	☐		☐	☐	☐	☐
			HNO3	Groundwater	☐	☐	☐	☐		☐	☐		☐	☐	☐	☐
			HNO3	Groundwater	☐	☐	☐	☐		☐	☐		☐	☐	☐	☐
			HNO3	Groundwater	☐	☐	☐	☐		☐	☐		☐	☐	☐	☐
			HNO3	Groundwater	☐	☐	☐	☐		☐	☐		☐	☐	☐	☐

*Relinquished By	Date/Time	Received By	Date/Time
[illegible]	2/27/24 1200		

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SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24030039 RcptNo: 1

Logged by:	Tegan A. Richards	2/29/2024 12:25:00 PM	Tegan Richards
Completed By:	Salwa A. Najjar	3/1/2024 1:22:39 PM	Salwa Najjar
Reviewed By:	Jennifer Woolf	3/1/2024 2:15:22 PM	Jennifer Woolf

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☑
   No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	10.8	Good	Not Present			

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24030039 RcptNo: 1

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
2	11.0	Good	Not Present			
3	13.3	Good	Not Present			

February 21, 2024

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: FGDS Landfill **WorkOrder:** 24010118

Dear Eric Staley:

TEKLAB, INC received 11 samples on 2/1/2024 4:45:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

Client: City Water, Light & Power
Work Order: 24010118
Client Project: FGDS Landfill
Report Date: 21-Feb-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	13
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 24010118

Client Project: FGDS Landfill **Report Date:** 21-Feb-24

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power
Work Order: 24010118
Client Project: FGDS Landfill
Report Date: 21-Feb-24

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: FGDS Landfill

Work Order: 24010118
Report Date: 21-Feb-24

Cooler Receipt Temp: 8.5 °C

An employee of Teklab, Inc. collected the sample(s).

R101, G112, G113, AW-2 and RW-3 will be recollected at a later date.

Radium-226 and Radium-228 analysis was performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power
Work Order: 24010118
Client Project: FGDS Landfill
Report Date: 21-Feb-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: City Water, Light & Power **Work Order:** 24010118

Client Project: FGDS Landfill **Report Date:** 21-Feb-24

Lab ID: 24010118-006 **Client Sample ID:** G120

Matrix: GROUNDWATER **Collection Date:** 02/02/2024 10:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**502.73**	ft	1	02/02/2024 10:07	R342908
Depth to water	*	-5.00		**14.63**	ft	1	02/02/2024 10:07	R342908
Depth to water from measuring point	*	0		**14.63**	ft	1	02/02/2024 10:07	R342908
Elevation of groundwater surface	*	0		**538.47**	ft	1	02/02/2024 10:07	R342908
Measuring Point Elevation	*	0		**553.10**	ft	1	02/02/2024 10:07	R342908
Measuring Point Height Above Land Surface	*	0		**0**	ft	1	02/02/2024 10:07	R342908
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**10**	NTU	1	02/02/2024 10:07	R342908
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.7**	°F	1	02/02/2024 10:07	R342908
SW-846 9040B								
pH, Field	*	1.00		**6.47**		1	02/02/2024 10:07	R342908
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1460**	µmhos/cm @25C	1	02/02/2024 10:07	R342908
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	100		**1320**	mg/L	5	02/05/2024 9:56	R342697
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**503**	mg/L	20	02/05/2024 15:43	R342640
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.17**	mg/L	1	02/07/2024 14:39	R342758
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**39**	mg/L	1	02/05/2024 15:39	R342647
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.628**	mg/L	1	02/06/2024 12:16	218254
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/06/2024 12:16	218254
Boron	NELAP	0.0200		**7.12**	mg/L	1	02/06/2024 12:16	218254
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/06/2024 12:16	218254
Calcium	NELAP	0.100		**265**	mg/L	1	02/06/2024 12:16	218254
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/06/2024 12:16	218254
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/06/2024 12:16	218254
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/06/2024 12:16	218254
Lithium	NELAP	0.0050		**0.0080**	mg/L	1	02/06/2024 12:16	218254
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/06/2024 12:16	218254
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/07/2024 2:36	218254
Arsenic	NELAP	0.0010		**0.0116**	mg/L	5	02/07/2024 2:36	218254
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/07/2024 2:36	218254
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/09/2024 16:48	218254
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/06/2024 11:09	218284
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	02/19/2024 14:24	R343341
Radium-228	*	0		**See Attached**	pci/L	1	02/19/2024 14:24	R343341

Client: City Water, Light & Power **Work Order:** 24010118

Client Project: FGDS Landfill **Report Date:** 21-Feb-24

Lab ID: 24010118-009 **Client Sample ID:** AW-1

Matrix: GROUNDWATER **Collection Date:** 02/01/2024 14:27

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**500.79**	ft	1	02/01/2024 14:27	R342908
Depth to water	*	-5.00		**9.12**	ft	1	02/01/2024 14:27	R342908
Depth to water from measuring point	*	0		**11.87**	ft	1	02/01/2024 14:27	R342908
Elevation of groundwater surface	*	0		**543.73**	ft	1	02/01/2024 14:27	R342908
Measuring Point Elevation	*	0		**555.60**	ft	1	02/01/2024 14:27	R342908
Measuring Point Height Above Land Surface	*	0		**2.75**	ft	1	02/01/2024 14:27	R342908
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**160**	NTU	1	02/01/2024 14:27	R342908
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.8**	°F	1	02/01/2024 14:27	R342908
SW-846 9040B								
pH, Field	*	1.00		**6.55**		1	02/01/2024 14:27	R342908
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1030**	µmhos/cm @25C	1	02/01/2024 14:27	R342908
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	100		**1120**	mg/L	5	02/02/2024 14:05	R342621
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**369**	mg/L	20	02/05/2024 16:23	R342640
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**< 0.10**	mg/L	1	02/02/2024 13:27	R342565
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**40**	mg/L	1	02/05/2024 16:19	R342647
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**2.02**	mg/L	1	02/05/2024 8:43	218215
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/05/2024 8:43	218215
Boron	NELAP	0.0200		**8.24**	mg/L	1	02/05/2024 8:43	218215
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/05/2024 8:43	218215
Calcium	NELAP	0.100		**203**	mg/L	1	02/06/2024 16:02	218215
Chromium	NELAP	0.0050		**0.0087**	mg/L	1	02/05/2024 8:43	218215
Cobalt	NELAP	0.0050		**0.0055**	mg/L	1	02/05/2024 8:43	218215
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/05/2024 8:43	218215
Lithium	NELAP	0.0050		**0.0184**	mg/L	1	02/07/2024 15:34	218215
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/05/2024 8:43	218215
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/05/2024 20:04	218215
Arsenic	NELAP	0.0010		**0.160**	mg/L	5	02/05/2024 20:04	218215
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/05/2024 20:04	218215
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/05/2024 20:04	218215
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/05/2024 15:25	218217
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	02/19/2024 14:24	R343341
Radium-228	*	0		**See Attached**	pci/L	1	02/19/2024 14:24	R343341

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 24010118
Client Project: FGDS Landfill
Report Date: 21-Feb-24

Carrier: Tracy Carroll
Received By: AMD

Completed by: Amber Dilallo
On: 02-Feb-24

Reviewed by: Ellie Hopkins
On: 05-Feb-24

Pages to follow: Chain of custody 2 Extra pages included 29

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 8.5
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

pH strip #90719. - amberdilallo - 2/2/2024 8:41:47 AM

pH strip #90719. - nickreed - 2/2/2024 3:02:17 PM

Samples collected on 2/2/24 were received at 7.3 degrees C on Ice (LTG#5) -NR 2/2/24

Print PDF

CHAIN OF CUSTODY

Pg 1 of 1 Workorder# ~~24010110~~ 24010118

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

TE 2/2/24

Client: City Water, Light & Power

Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building

City/State/Zip: Springfield IL 62712

Contact: Eric Staley Phone: (217) 757-8610

Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 8.5 °C #5

Preserved in: [ ] LAB [X] FIELD FOR LAB USE ONLY

LAB NOTES: 907A 2/2/24

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No

Are these samples known to be hazardous? [ ] Yes [✓] No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:

*elevations, pH, conductivity, temperature

**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo

Quarterly monitoring 4Q2023-3Q2025

RW-3 report data from Ash Pond sampling event. 24010117-001

PROJECT NAME/NUMBER

FGDS Landfill

SAMPLE COLLECTOR'S NAME

TCarroll

RESULTS REQUESTED

[✓] Standard [ ] 1-2 Day (100% Surcharge)

[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24010118-001	R101		Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	G110	2/1/24 1316	Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	R111		Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	G112		Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	G113		Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	G120		Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	G121		Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	G122		Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AW-1	2/1/24 1427	Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AW-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	RW-3		Groundwater	0	0								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
TCarroll	2/1/24 1645	[illegible]	2/1/24 1645

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 1 of 1 Workorder# ~~240110~~ 24010118 TE 1/24 1/2/24

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 7.3 °C LTGS
Preserved in: ☐ LAB ☒ FIELD FOR LAB USE ONLY
LAB NOTES: pH 9.07.19 DS 1/2

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments: Courier
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring 4Q2023-3Q2025
RW-3 report data from Ash Pond sampling event. 24010117-001

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME
Justin Colp

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24010118-001	R101		Groundwater	1	2								✔	✔	✔	✔	✔	✔
002	G110		Groundwater	1	2								✔	✔	✔	✔	✔	✔
003	R111	2/2/24 1102	Groundwater	1	2								✔	✔	✔	✔	✔	✔
004	G112		Groundwater	1	2								✔	✔	✔	✔	✔	✔
005	G113		Groundwater	1	2								✔	✔	✔	✔	✔	✔
006	G120	2/2/24 1007	Groundwater	1	2								✔	✔	✔	✔	✔	✔
007	G121	2/2/24 1029	Groundwater	1	2								✔	✔	✔	✔	✔	✔
008	G122	2/2/24 1054	Groundwater	1	2								✔	✔	✔	✔	✔	✔
009	AW-1		Groundwater	1	2								✔	✔	✔	✔	✔	✔
010	AW-2		Groundwater	1	2								✔	✔	✔	✔	✔	✔
011	RW-3		Groundwater	0	0								✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
J. Colp	2-2-24 1300		2/2 1300

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions DS 1/2

Site Samping Event: CWLP-LF 1Q24
LIMS Workorder: 24010118
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
CWLP- 1Q 2024

			Weather				Well Condition				
WO Sample	**Well ID**	**Program/ Sample Type**	**Temp (°F)**	**Precipitation**	**Wind Direction**	**Sky**	**Well Pad**	**Casing**	**Protective Cover**	**Reference Mark/ ID**	**Well Locked**
002	G110	Groundwater Sample	56.0	None	SW	Cloudy	Good	Good	Good	No	No
003	R111	Groundwater Sample	42.0	None	E	Partly cloudy	Good	Good	Good	Yes	No
006	G120	Groundwater Sample	39.0	None	W	Cloudy	Good	Good	Good	Yes	No
007	G121	Groundwater Sample	41.0	None	W	Cloudy	Good	Good	Good	Yes	No
008	G122	Groundwater Sample	42.0	None	W	Partly cloudy	Good	Good	Good	Yes	No
009	AW-1	Groundwater Sample	56.0	None	SW	Cloudy	Good	Good	Good	Yes	No
012	DUPLICATE	QA/QC Sample	42.0	None	E	Partly cloudy	Good	Good	Good	Yes	No

Site Samping Event: CWLP-LF 1Q24
LIMS Workorder: 24010118
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
CWLP- 1Q 2024

		GW Level Measurement				Purge Activities							
WO Sample	**Well ID**	**Sampler Initials**	**Date/Time**	**DTW (ft)**	**DTB (ft)**	**Sampler Initials**	**Purge Date**	**Purge Start Time**	**Purge End Time**	**Purging Device**	**Well Diameter (in)**	**Actual Volume Purged (L)**	**Purge Rate (mL/min)**
002	G110	TAC	2/1/24 12:45	23.36	57.15	TAC	2/1/2024	12:50	13:16	Peristaltic Pump	2"	5.0	192.3
003	R111	DC	2/2/24 10:36	24.34	55.75	TAC	2/2/2024	10:40	11:02	Peristaltic Pump	2"	4.0	181.8
006	G120	JC	2/2/24 9:50	14.63	50.37	JC	2/2/2024	09:55	10:07	Submersible Pump	2"	4.0	333.3
007	G121	JC	2/2/24 10:17	26.54	58.56	JC	2/2/2024	10:19	10:29	Submersible Pump	2"	4.0	**400.0**
008	G122	JC	2/2/24 10:44	26.71	49.29	JC	2/2/2024	10:44	10:54	Submersible Pump	2"	3.0	300.0
009	AW-1	DC	2/1/24 13:47	11.87	54.81	TAC	2/1/2024	14:00	14:27	Submersible Pump	2"	6.0	222.2
012	DUPLICATE	DC	2/2/24 11:22	24.34		TAC	2/2/2024	10:40	11:02	Peristaltic Pump	2"	4.0	181.8

Site Samping Event: CWLP-LF 1Q24
LIMS Workorder: 24010118
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
CWLP- 1Q 2024

WO Sample	Well ID	Sampling Activities and Observations									
		Sampler Initials	Date	Time	Sampling Method	Field Filtered	Appearance	Odor	Color	Post-Sample DTW (ft)	Drawdown (ft)
002	G110	DC	02/01/24	13:16	Low Flow	Yes	Clear	Slight	None	23.38	0.02
003	R111	DC	02/02/24	11:02	Low Flow	Yes	Clear	None	None	24.45	0.11
006	G120	JC	02/02/24	10:07	Low Flow	Yes	Clear	None	none	19.04	**4.41**
007	G121	JC	02/02/24	10:29	Low Flow	Yes	Clear	None	none	31.10	**4.56**
008	G122	JC	02/02/24	10:54	Low Flow	Yes	Clear	None	none	28.57	**1.86**
009	AW-1	DC	02/01/24	14:27	Low Flow	Yes	Slightly cloudy	None	Lt Brown	15.90	**4.03**
012	DUPLICATE	DC	02/02/24	11:02	Low Flow	Yes	Clear	None	None	24.45	0.11

Site Samping Event: CWLP-LF 1Q24
LIMS Workorder: 24010118
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
CWLP- 1Q 2024

WO Sample	Well ID	COMMENTS
002	G110	
003	R111	
006	G120	
007	G121	
008	G122	
009	AW-1	
012	DUPLICATE	

Site Samping Event: CWLP-LF 1Q24
LIMS Workorder: 24010118
Technician(s): DC, JC, TC, BG

Stabilized Field Parameters Summary
CWLP- 1Q 2024

Well ID	Date	Time	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	LIMS ID
G110	2/01/2024	13:16	14.5	58.1	6.85	657.8	1.89	6.40	-61.3	23.36	24010116-002A
R111	2/02/2024	11:02	13.0	55.4	6.14	90.9	2.47	4.87	135.4	24.34	24010116-003A
G120	2/02/2024	10:07	13.7	56.7	6.47	1,462.1	1.67	10.45	144.9	14.63	24010116-006A
G121	2/02/2024	10:29	12.5	54.5	6.62	1,195.9	1.91	8.32	143.8	26.54	24010116-007A
G122	2/02/2024	10:54	12.9	55.2	6.56	1,390.5	1.72	9.40	143.3	26.71	24010116-008A
AW-1	2/01/2024	14:27	13.8	56.8	6.55	1,025.6	0.56	155.98	-79.6	11.87	24010116-009A
DUPLICATE	2/02/2024	11:02	13.0	55.4	6.14	90.9	2.47	4.87	135.4	24.34	24010116-012A

Site Samping Event: CWLP-LF 1Q24 **Groundwater Sampling Forms- Groundwter Quality Parameters**
LIMS Workorder: 24010118 **CWLP- 1Q 2024**
Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G120	2/02/2024	9:58	14.63	13.8	56.8	6.46	1,385.6	4.040	15.0	136.4
G120	2/02/2024	10:01	14.63	13.9	57.0	6.57	1,392.8	2.640	12.5	138.0
G120	2/02/2024	10:04	14.63	13.7	56.7	6.50	1,431.0	2.020	11.1	143.3
G120	2/02/2024	10:07	14.63	13.7	56.7	6.47	1,462.1	1.670	10.5	144.9

Site Samping Event: CWLP-LF 1Q24 **Groundwater Sampling Forms- Groundwter Quality Parameters**
LIMS Workorder: 24010118 **CWLP- 1Q 2024**
Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AW-1	2/01/2024	14:18	11.87	13.7	56.7	6.55	1,059.4	1.190	151.8	-66.2
AW-1	2/01/2024	14:21	11.87	13.7	56.7	6.55	1,052.9	1.010	133.9	-71.6
AW-1	2/01/2024	14:24	11.87	13.6	56.5	6.55	1,040.5	0.930	161.2	-75.8
AW-1	2/01/2024	14:27	11.87	13.8	56.8	6.55	1,025.6	0.560	156.0	-79.6

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

February 21, 2024

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 24010118

Dear Shelly Hennessy:

Order No.: 24020447

Summit Environmental Technologies, Inc. received 6 sample(s) on 2/7/2024 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Case Narrative

WO#: **24020447**
Date: **2/21/2024**

CLIENT: TEKLAB Inc,
Project: 24010118

WorkOrder Narrative:
24020447: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

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All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, In
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-44
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **24020447**
Date: **2/21/2024**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Workorder Sample Summary

WO#: **24020447**

21-Feb-24

CLIENT: TEKLAB Inc,
Project: 24010118

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24020447-001	24010118-002		2/1/2024 1:16:00 PM	2/7/2024 11:30:00 AM	Non-Potable Water
24020447-002	24010118-003		2/2/2024 11:02:00 AM	2/7/2024 11:30:00 AM	Non-Potable Water
24020447-003	24010118-006		2/2/2024 10:07:00 AM	2/7/2024 11:30:00 AM	Non-Potable Water
24020447-004	24010118-007		2/2/2024 10:29:00 AM	2/7/2024 11:30:00 AM	Non-Potable Water
24020447-005	24010118-008		2/2/2024 10:54:00 AM	2/7/2024 11:30:00 AM	Non-Potable Water
24020447-006	24010118-009		2/1/2024 2:27:00 PM	2/7/2024 11:30:00 AM	Non-Potable Water

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DATES REPORT

WO#: **24020447**

21-Feb-24

Client: TEKLAB Inc,

Project: 24010118

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24020447-001A	24010118-002	2/1/2024 1:16:00 PM	Non-Potable Water	Radium-226 (EPA 903.0)		2/14/2024 12:42:04 PM	2/20/2024 4:53:33 PM
				Radium-228 (EPA 904.0)		2/14/2024 12:42:04 PM	2/19/2024 2:24:00 PM
24020447-002A	24010118-003	2/2/2024 11:02:00 AM		Radium-226 (EPA 903.0)		2/14/2024 12:42:04 PM	2/20/2024 4:53:33 PM
				Radium-228 (EPA 904.0)		2/14/2024 12:42:04 PM	2/19/2024 2:24:00 PM
24020447-003A	24010118-006	2/2/2024 10:07:00 AM		Radium-226 (EPA 903.0)		2/14/2024 12:42:04 PM	2/20/2024 4:53:33 PM
				Radium-228 (EPA 904.0)		2/14/2024 12:42:04 PM	2/19/2024 2:24:00 PM
24020447-004A	24010118-007	2/2/2024 10:29:00 AM		Radium-226 (EPA 903.0)		2/14/2024 12:42:04 PM	2/20/2024 4:53:33 PM
				Radium-228 (EPA 904.0)		2/14/2024 12:42:04 PM	2/19/2024 2:24:00 PM
24020447-005A	24010118-008	2/2/2024 10:54:00 AM		Radium-226 (EPA 903.0)		2/14/2024 12:42:04 PM	2/20/2024 4:53:33 PM
				Radium-228 (EPA 904.0)		2/14/2024 12:42:04 PM	2/19/2024 2:24:00 PM
24020447-006A	24010118-009	2/1/2024 2:27:00 PM		Radium-226 (EPA 903.0)		2/14/2024 12:42:04 PM	2/20/2024 4:53:33 PM
				Radium-228 (EPA 904.0)		2/14/2024 12:42:04 PM	2/19/2024 2:24:00 PM

Original

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Analytical Report

(consolidated)

WO#: **24020447**

Date Reported: **2/21/2024**

CLIENT: TEKLAB Inc,

Collection Date: 2/2/2024 10:07:00 AM

Project: 24010118

Lab ID: 24020447-003

Matrix: NON-POTABLE WATER

Client Sample ID: 24010118-006

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	2/20/2024 4:53:33 PM
Yield	1.00					1	2/20/2024 4:53:33 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	ND	1.00		pCi/L	± 0.320	1	2/19/2024 2:24:00 PM
Yield	1.00					1	2/19/2024 2:24:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **24020447**

Date Reported: **2/21/2024**

CLIENT: TEKLAB Inc,

Collection Date: 2/1/2024 2:27:00 PM

Project: 24010118

Lab ID: 24020447-006

Matrix: NON-POTABLE WATER

Client Sample ID: 24010118-009

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	1.96	1.00		pCi/L	± 0.260	1	2/20/2024 4:53:33 PM
Yield	1.00					1	2/20/2024 4:53:33 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	1.43	1.00		pCi/L	± 0.410	1	2/19/2024 2:24:00 PM
Yield	1.00					1	2/19/2024 2:24:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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QC SUMMARY REPORT

WO#: **24020447**

21-Feb-24

Client: TEKLAB Inc,
Project: 24010118 **BatchID:** **72958**

Sample ID: **MB-72958** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/14/2024** RunNo: **180457**
Client ID: **PBW** Batch ID: **72958** TestNo: **E904.0** **E903-904** Analysis Date: **2/19/2024** SeqNo: **4892947**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-72958** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/14/2024** RunNo: **180457**
Client ID: **LCSW** Batch ID: **72958** TestNo: **E904.0** **E903-904** Analysis Date: **2/19/2024** SeqNo: **4892948**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.28	1.00	7.170	0	59.7	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-72958** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/14/2024** RunNo: **180457**
Client ID: **LCSS02** Batch ID: **72958** TestNo: **E904.0** **E903-904** Analysis Date: **2/19/2024** SeqNo: **4892949**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.67	1.00	7.170	0	65.1	50	130	4.280	8.72	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **24020447**

21-Feb-24

Client: TEKLAB Inc,
Project: 24010118 **BatchID:** **72958**

Sample ID: **RLC1-72958** SampType: **RLC** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/14/2024** RunNo: **180457**
Client ID: **BatchQC** Batch ID: **72958** TestNo: **E904.0** **E903-904** Analysis Date: **2/19/2024** SeqNo: **4892951**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00	0.8962	0	74.8	50	150				
Yield	1.00			0	0						

Sample ID: **RLC2-72958** SampType: **RLC** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/14/2024** RunNo: **180457**
Client ID: **BatchQC** Batch ID: **72958** TestNo: **E904.0** **E903-904** Analysis Date: **2/19/2024** SeqNo: **4892952**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.32	1.00	0.8962	0	147	50	150				
Yield	1.00			0	0						

Sample ID: **24020780-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **2/14/2024** RunNo: **180457**
Client ID: **BatchQC** Batch ID: **72958** TestNo: **E904.0** **E903-904** Analysis Date: **2/19/2024** SeqNo: **4892954**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **24020447**

21-Feb-24

Client: TEKLAB Inc,
Project: 24010118 **BatchID:** **72958**

Sample ID: **MB-72958**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/14/2024**	RunNo: **180466**
Client ID: **PBW**	Batch ID: **72958**	TestNo: **E903.0**	**E903-904**	Analysis Date: **2/20/2024**	SeqNo: **4893053**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-72958**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/14/2024**	RunNo: **180466**
Client ID: **LCSW**	Batch ID: **72958**	TestNo: **E903.0**	**E903-904**	Analysis Date: **2/20/2024**	SeqNo: **4893054**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	7.56	1.00	8.260	0	91.5	70	130				

Sample ID: **LCSD-72958**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/14/2024**	RunNo: **180466**
Client ID: **LCSS02**	Batch ID: **72958**	TestNo: **E903.0**	**E903-904**	Analysis Date: **2/20/2024**	SeqNo: **4893055**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	6.97	1.00	8.260	0	84.4	70	130	7.560	8.12	20	

Sample ID: **RLC3-72958**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/14/2024**	RunNo: **180466**
Client ID: **BatchQC**	Batch ID: **72958**	TestNo: **E903.0**	**E903-904**	Analysis Date: **2/20/2024**	SeqNo: **4893057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **24020447**

21-Feb-24

Client: TEKLAB Inc,
Project: 24010118 **BatchID:** **72958**

Sample ID: **RLC3-72958**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/14/2024**	RunNo: **180466**
Client ID: **BatchQC**	Batch ID: **72958**	TestNo: **E903.0**	**E903-904**	Analysis Date: **2/20/2024**	SeqNo: **4893057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.02	1.00	1.000	0	102	50	150				

Sample ID: **RLC4-72958**	SampType: **RLC**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **2/14/2024**	RunNo: **180466**
Client ID: **BatchQC**	Batch ID: **72958**	TestNo: **E903.0**	**E903-904**	Analysis Date: **2/20/2024**	SeqNo: **4893058**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00	1.000	0	79.0	50	150				

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

24020447

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

12.6-0.2: Cooler Temp: 12.4c Sampler: Teklab Sampler QC Level: 2

Fedex, cooler

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium (226 and 228) by method EPA903.0/904.0
on your standard turnaround time.
Batch QC is required with the report. Receipt summary requested.

Project# 24010118

Contact: Shelly Hennessy Email: shennessy@teklabinc.com
Requested Due Date: 20 business days or less Billing/PO: 35748
Phone: (618) 344-1004 ext. 36

State of Origin: IL

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Any changes to analysis/methods must be approved by Teklab, Inc.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226	Radium 228		cpm					pH			
	24010118-002	2/1/24 1316	HNO3	Groundwater	✔	✔		15					1			
	24010118-003	2/2/24 1102	HNO3	Groundwater	✔	✔		15					1			
	24010118-006	2/2/24 1007	HNO3	Groundwater	✔	✔		31					1			
	24010118-007	2/2/24 1029	HNO3	Groundwater	✔	✔		34					1			
	24010118-008	2/2/24 1054	HNO3	Groundwater	✔	✔		31					1			
	24010118-009	2/1/24 1427	HNO3	Groundwater	✔	✔		27					1			
			Unpres	Aqueous												
			Unpres	Aqueous												
			Unpres	Aqueous												
			Unpres	Aqueous												
			Unpres	Aqueous												

*Relinquished By	Date/Time	Received By	Date/Time
Emma Cirullo	2/5/24 1700		2/7/24, 1130

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

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Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24020447 RcptNo: 1

Logged by:	Tegan A. Richards	2/7/2024 11:30:00 AM	Tegan Richards
Completed By:	Tegan A. Richards	2/7/2024 1:22:39 PM	Tegan Richards
Reviewed By:	Jennifer Woolf	2/7/2024 2:34:24 PM	Jennifer Woolf

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☑
   No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	12.4	Good	Not Present			

May 2024 Laboratory Analytical Report

July 15, 2024

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 24050003

Dear Eric Staley:

TEKLAB, INC received 20 samples on 5/14/2024 2:39:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24050003
Report Date: 15-Jul-24

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Client: City Water, Light & Power **Work Order:** 24050003

Client Project: Ash Pond Monitoring Wells **Report Date:** 15-Jul-24

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power
Work Order: 24050003

Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24050003
Report Date: 15-Jul-24

Cooler Receipt Temp: 12.1 °C

This report was revised on July 15, 2024 per Eric Staley's request to report the reanalysis of Cobalt for AP-11. Please replace report dated June 18, 2024 with this report. SAH 7/15/24

An employee of Teklab, Inc. collected the sample(s).

Radium-226 & -228 analysis was performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power

Client Project: Ash Pond Monitoring Wells

Work Order: 24050003

Report Date: 15-Jul-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-001
Client Sample ID: RW-3
Matrix: GROUNDWATER
Collection Date: 05/09/2024 12:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	05/09/2024 12:12	R347528
Depth to water	*	-5.00		**5.17**	ft	1	05/09/2024 12:12	R347528
Depth to water from measuring point	*	0		**7.87**	ft	1	05/09/2024 12:12	R347528
Elevation of groundwater surface	*	0		**531.63**	ft	1	05/09/2024 12:12	R347528
Measuring Point Elevation	*	0		**539.50**	ft	1	05/09/2024 12:12	R347528
Measuring Point Height Above Land Surface	*	0		**2.70**	ft	1	05/09/2024 12:12	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**23**	NTU	1	05/09/2024 12:12	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.1**	°F	1	05/09/2024 12:12	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.70**		1	05/09/2024 12:12	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**644**	µmhos/cm @25C	1	05/09/2024 12:12	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**345**	mg/L	2.5	05/15/2024 12:24	R347402
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	05/21/2024 0:32	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.40**	mg/L	1	05/20/2024 13:43	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**28**	mg/L	1	05/21/2024 0:32	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.143**	mg/L	1	05/15/2024 13:36	222813
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/15/2024 13:36	222813
Boron	NELAP	0.0200		**0.154**	mg/L	1	05/15/2024 13:36	222813
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/15/2024 13:36	222813
Calcium	NELAP	0.100		**65.6**	mg/L	1	05/15/2024 13:36	222813
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/15/2024 13:36	222813
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/15/2024 13:36	222813
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/15/2024 13:36	222813
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/20/2024 11:21	222813
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/15/2024 13:36	222813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 16:35	222813
Arsenic	NELAP	0.0010		**0.188**	mg/L	5	05/14/2024 16:35	222813
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 16:35	222813
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/15/2024 17:05	222813
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/24/2024 9:40	223373
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-002
Client Sample ID: AP-1
Matrix: GROUNDWATER
Collection Date: 05/13/2024 11:01

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**504.29**	ft	1	05/13/2024 11:01	R347528
Depth to water	*	-5.00		**6.61**	ft	1	05/13/2024 11:01	R347528
Depth to water from measuring point	*	0		**8.88**	ft	1	05/13/2024 11:01	R347528
Elevation of groundwater surface	*	0		**526.49**	ft	1	05/13/2024 11:01	R347528
Measuring Point Elevation	*	0		**535.37**	ft	1	05/13/2024 11:01	R347528
Measuring Point Height Above Land Surface	*	0		**2.27**	ft	1	05/13/2024 11:01	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**5.7**	NTU	1	05/13/2024 11:01	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.5**	°F	1	05/13/2024 11:01	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.31**		1	05/13/2024 11:01	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1760**	µmhos/cm @25C	1	05/13/2024 11:01	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1490**	mg/L	2.5	05/17/2024 9:50	R347497
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**805**	mg/L	20	05/21/2024 14:15	R347701
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.19**	mg/L	1	05/20/2024 13:45	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**29**	mg/L	2	05/21/2024 0:35	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.300**	mg/L	1	05/23/2024 13:18	223235
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/23/2024 13:18	223235
Boron	NELAP	0.0400		**22.7**	mg/L	2	05/29/2024 13:26	223235
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/23/2024 13:18	223235
Calcium	NELAP	0.100		**248**	mg/L	1	05/23/2024 13:18	223235
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:18	223235
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:18	223235
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/23/2024 13:18	223235
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/30/2024 10:42	223235
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/23/2024 13:18	223235
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:33	223235
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:33	223235
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:33	223235
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/23/2024 22:33	223235
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/22/2024 16:19	223231
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-003
Client Sample ID: AP-2
Matrix: GROUNDWATER
Collection Date: 05/13/2024 11:53

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.77**	ft	1	05/13/2024 11:53	R347528
Depth to water	*	-5.00		**4.55**	ft	1	05/13/2024 11:53	R347528
Depth to water from measuring point	*	0		**7.05**	ft	1	05/13/2024 11:53	R347528
Elevation of groundwater surface	*	0		**529.05**	ft	1	05/13/2024 11:53	R347528
Measuring Point Elevation	*	0		**536.10**	ft	1	05/13/2024 11:53	R347528
Measuring Point Height Above Land Surface	*	0		**2.50**	ft	1	05/13/2024 11:53	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**4.9**	NTU	1	05/13/2024 11:53	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.2**	°F	1	05/13/2024 11:53	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.21**		1	05/13/2024 11:53	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1290**	µmhos/cm @25C	1	05/13/2024 11:53	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1040**	mg/L	2.5	05/17/2024 10:40	R347497
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**411**	mg/L	20	05/21/2024 0:48	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.23**	mg/L	1	05/20/2024 13:46	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**36**	mg/L	2	05/21/2024 0:43	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0607**	mg/L	1	05/22/2024 13:30	223266
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/22/2024 13:30	223266
Boron	NELAP	0.0200		**3.43**	mg/L	1	05/29/2024 12:39	223266
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/22/2024 13:30	223266
Calcium	NELAP	0.100		**194**	mg/L	1	05/22/2024 13:30	223266
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/22/2024 13:30	223266
Cobalt	NELAP	0.0050		**0.0102**	mg/L	1	05/22/2024 13:30	223266
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/22/2024 13:30	223266
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/30/2024 10:36	223266
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/22/2024 13:30	223266
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**0.0021**	mg/L	5	05/22/2024 19:34	223266
Arsenic	NELAP	0.0010		**0.0020**	mg/L	5	05/22/2024 19:34	223266
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/22/2024 19:34	223266
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/22/2024 19:34	223266
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/22/2024 16:22	223231
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-004
Client Sample ID: AP-3
Matrix: GROUNDWATER
Collection Date: 05/13/2024 12:43

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.75**	ft	1	05/13/2024 12:43	R347528
Depth to water	*	-5.00		**6.46**	ft	1	05/13/2024 12:43	R347528
Depth to water from measuring point	*	0		**9.11**	ft	1	05/13/2024 12:43	R347528
Elevation of groundwater surface	*	0		**526.44**	ft	1	05/13/2024 12:43	R347528
Measuring Point Elevation	*	0		**535.55**	ft	1	05/13/2024 12:43	R347528
Measuring Point Height Above Land Surface	*	0		**2.65**	ft	1	05/13/2024 12:43	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**2.7**	NTU	1	05/13/2024 12:43	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.9**	°F	1	05/13/2024 12:43	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.36**		1	05/13/2024 12:43	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1220**	µmhos/cm @25C	1	05/13/2024 12:43	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1040**	mg/L	2.5	05/17/2024 10:40	R347497
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**493**	mg/L	20	05/21/2024 0:56	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.19**	mg/L	1	05/20/2024 13:48	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**53**	mg/L	2	05/21/2024 0:51	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0767**	mg/L	1	05/23/2024 13:19	223235
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/23/2024 13:19	223235
Boron	NELAP	0.0200		**14.5**	mg/L	1	05/29/2024 13:26	223235
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/23/2024 13:19	223235
Calcium	NELAP	0.100		**176**	mg/L	1	05/23/2024 13:19	223235
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:19	223235
Cobalt	NELAP	0.0050		**0.0065**	mg/L	1	05/23/2024 13:19	223235
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/23/2024 13:19	223235
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/30/2024 10:43	223235
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/23/2024 13:19	223235
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:39	223235
Arsenic	NELAP	0.0010		**0.0021**	mg/L	5	05/23/2024 22:39	223235
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:39	223235
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/23/2024 22:39	223235
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/22/2024 16:24	223231
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power **Work Order:** 24050003

Client Project: Ash Pond Monitoring Wells **Report Date:** 15-Jul-24

Lab ID: 24050003-005 **Client Sample ID:** AP-4

Matrix: GROUNDWATER **Collection Date:** 05/13/2024 13:25

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**492.46**	ft	1	05/13/2024 13:25	R347528
Depth to water	*	-5.00		**5.54**	ft	1	05/13/2024 13:25	R347528
Depth to water from measuring point	*	0		**8.68**	ft	1	05/13/2024 13:25	R347528
Elevation of groundwater surface	*	0		**546.92**	ft	1	05/13/2024 13:25	R347528
Measuring Point Elevation	*	0		**555.60**	ft	1	05/13/2024 13:25	R347528
Measuring Point Height Above Land Surface	*	0		**3.14**	ft	1	05/13/2024 13:25	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**24**	NTU	1	05/13/2024 13:25	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**63.0**	°F	1	05/13/2024 13:25	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.83**		1	05/13/2024 13:25	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**588**	µmhos/cm @25C	1	05/13/2024 13:25	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**500**	mg/L	2.5	05/17/2024 10:40	R347497
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10	S	**< 10**	mg/L	1	05/21/2024 1:02	R347580
Matrix spike did not recover within control limits due to matrix interference.								
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.13**	mg/L	1	05/20/2024 13:50	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**13**	mg/L	1	05/21/2024 1:02	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.407**	mg/L	1	05/23/2024 13:19	223235
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/23/2024 13:19	223235
Boron	NELAP	0.0200		**0.0834**	mg/L	1	05/29/2024 13:27	223235
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/23/2024 13:19	223235
Calcium	NELAP	0.100		**123**	mg/L	1	05/23/2024 13:19	223235
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:19	223235
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:19	223235
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/23/2024 13:19	223235
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/30/2024 10:45	223235
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/23/2024 13:19	223235
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:45	223235
Arsenic	NELAP	0.0010		**0.0229**	mg/L	5	05/23/2024 22:45	223235
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:45	223235
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/23/2024 22:45	223235
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/22/2024 16:26	223231
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-006
Client Sample ID: AP-5
Matrix: GROUNDWATER
Collection Date: 05/14/2024 9:54

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**552.63**	ft	1	05/14/2024 9:54	R347528
Depth to water	*	-5.00		**11.30**	ft	1	05/14/2024 9:54	R347528
Depth to water from measuring point	*	0		**13.60**	ft	1	05/14/2024 9:54	R347528
Elevation of groundwater surface	*	0		**570.30**	ft	1	05/14/2024 9:54	R347528
Measuring Point Elevation	*	0		**583.90**	ft	1	05/14/2024 9:54	R347528
Measuring Point Height Above Land Surface	*	0		**2.30**	ft	1	05/14/2024 9:54	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**5.2**	NTU	1	05/14/2024 9:54	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.5**	°F	1	05/14/2024 9:54	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.99**		1	05/14/2024 9:54	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**468**	µmhos/cm @25C	1	05/14/2024 9:54	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**405**	mg/L	2.5	05/17/2024 10:41	R347497
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**43**	mg/L	1	05/21/2024 1:39	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.29**	mg/L	1	05/20/2024 13:52	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**8**	mg/L	1	05/21/2024 1:39	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0510**	mg/L	1	05/23/2024 13:35	223235
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/23/2024 13:35	223235
Boron	NELAP	0.0200		**0.0269**	mg/L	1	05/29/2024 13:28	223235
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/23/2024 13:35	223235
Calcium	NELAP	0.100		**94.1**	mg/L	1	05/23/2024 13:35	223235
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:35	223235
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:35	223235
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/23/2024 13:35	223235
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/30/2024 10:47	223235
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/23/2024 13:35	223235
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:51	223235
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:51	223235
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:51	223235
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/23/2024 22:51	223235
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/22/2024 19:07	223259
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 05/10/2024 10:13

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.20**	ft	1	05/10/2024 10:13	R347528
Depth to water	*	-5.00		**4.15**	ft	1	05/10/2024 10:13	R347528
Depth to water from measuring point	*	0		**6.57**	ft	1	05/10/2024 10:13	R347528
Elevation of groundwater surface	*	0		**531.25**	ft	1	05/10/2024 10:13	R347528
Measuring Point Elevation	*	0		**537.82**	ft	1	05/10/2024 10:13	R347528
Measuring Point Height Above Land Surface	*	0		**2.42**	ft	1	05/10/2024 10:13	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**19**	NTU	1	05/10/2024 10:13	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.3**	°F	1	05/10/2024 10:13	R347528
SW-846 9040B								
pH, Field	*	1.00		**7.27**		1	05/10/2024 10:13	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**662**	µmhos/cm @25C	1	05/10/2024 10:13	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**390**	mg/L	2.5	05/15/2024 12:24	R347402
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	05/21/2024 1:46	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.48**	mg/L	1	05/20/2024 13:54	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**33**	mg/L	1	05/21/2024 1:47	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.147**	mg/L	1	05/15/2024 13:36	222813
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/15/2024 13:36	222813
Boron	NELAP	0.0200		**0.238**	mg/L	1	05/15/2024 13:36	222813
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/15/2024 13:36	222813
Calcium	NELAP	0.100		**65.8**	mg/L	1	05/15/2024 13:36	222813
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/15/2024 13:36	222813
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/15/2024 13:36	222813
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/15/2024 13:36	222813
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/20/2024 11:22	222813
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/15/2024 13:36	222813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 16:40	222813
Arsenic	NELAP	0.0010		**0.0121**	mg/L	5	05/14/2024 16:40	222813
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 16:40	222813
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/15/2024 17:10	222813
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/24/2024 19:38	223389
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-008
Client Sample ID: AP-7
Matrix: GROUNDWATER
Collection Date: 05/14/2024 11:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**496.50**	ft	1	05/14/2024 11:21	R347528
Depth to water	*	-5.00		**7.21**	ft	1	05/14/2024 11:21	R347528
Depth to water from measuring point	*	0		**9.87**	ft	1	05/14/2024 11:21	R347528
Elevation of groundwater surface	*	0		**529.15**	ft	1	05/14/2024 11:21	R347528
Measuring Point Elevation	*	0		**539.02**	ft	1	05/14/2024 11:21	R347528
Measuring Point Height Above Land Surface	*	0		**2.66**	ft	1	05/14/2024 11:21	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**18**	NTU	1	05/14/2024 11:21	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.5**	°F	1	05/14/2024 11:21	R347528
SW-846 9040B								
pH, Field	*	1.00		**7.15**		1	05/14/2024 11:21	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**441**	µmhos/cm @25C	1	05/14/2024 11:21	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**340**	mg/L	2.5	05/17/2024 10:41	R347497
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**11**	mg/L	1	05/21/2024 1:49	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.38**	mg/L	1	05/20/2024 14:04	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**43**	mg/L	1	05/21/2024 1:50	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0915**	mg/L	1	05/23/2024 13:36	223235
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/23/2024 13:36	223235
Boron	NELAP	0.0200		**0.0978**	mg/L	1	05/24/2024 14:23	223235
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/23/2024 13:36	223235
Calcium	NELAP	0.100		**52.3**	mg/L	1	05/23/2024 13:36	223235
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:36	223235
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:36	223235
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/23/2024 13:36	223235
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/30/2024 10:48	223235
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/23/2024 13:36	223235
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:58	223235
Arsenic	NELAP	0.0010		**0.0395**	mg/L	5	05/23/2024 22:58	223235
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:58	223235
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/23/2024 22:58	223235
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/22/2024 19:09	223259
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-009
Client Sample ID: AP-8
Matrix: GROUNDWATER
Collection Date: 05/10/2024 10:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.60**	ft	1	05/10/2024 10:35	R347528
Depth to water	*	-5.00		**0.84**	ft	1	05/10/2024 10:35	R347528
Depth to water from measuring point	*	0		**3.74**	ft	1	05/10/2024 10:35	R347528
Elevation of groundwater surface	*	0		**533.46**	ft	1	05/10/2024 10:35	R347528
Measuring Point Elevation	*	0		**537.20**	ft	1	05/10/2024 10:35	R347528
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	05/10/2024 10:35	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**34**	NTU	1	05/10/2024 10:35	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.3**	°F	1	05/10/2024 10:35	R347528
SW-846 9040B								
pH, Field	*	1.00		**7.03**		1	05/10/2024 10:35	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**917**	µmhos/cm @25C	1	05/10/2024 10:35	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**590**	mg/L	2.5	05/15/2024 15:57	R347402
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10	SR	**< 10**	mg/L	1	05/21/2024 1:59	R347580
Matrix spike and RPD did not recover within control limits due to matrix interference.								
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.28**	mg/L	1	05/20/2024 14:14	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**26**	mg/L	2	05/21/2024 2:27	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.373**	mg/L	1	05/15/2024 13:37	222813
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/15/2024 13:37	222813
Boron	NELAP	0.0200		**0.0877**	mg/L	1	05/15/2024 13:37	222813
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/15/2024 13:37	222813
Calcium	NELAP	0.100		**99.4**	mg/L	1	05/15/2024 13:37	222813
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/15/2024 13:37	222813
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/15/2024 13:37	222813
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/15/2024 13:37	222813
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/20/2024 11:24	222813
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/15/2024 13:37	222813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 16:46	222813
Arsenic	NELAP	0.0010		**0.0461**	mg/L	5	05/14/2024 16:46	222813
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 16:46	222813
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/15/2024 17:15	222813
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/24/2024 19:41	223389
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-011
Client Sample ID: AP-10
Matrix: GROUNDWATER
Collection Date: 05/13/2024 14:08

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**499.43**	ft	1	05/13/2024 14:08	R347528
Depth to water	*	-5.00		**-0.56**	ft	1	05/13/2024 14:08	R347528
Depth to water from measuring point	*	0		**2.54**	ft	1	05/13/2024 14:08	R347528
Elevation of groundwater surface	*	0		**534.96**	ft	1	05/13/2024 14:08	R347528
Measuring Point Elevation	*	0		**537.50**	ft	1	05/13/2024 14:08	R347528
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	05/13/2024 14:08	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**6.0**	NTU	1	05/13/2024 14:08	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.4**	°F	1	05/13/2024 14:08	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.54**		1	05/13/2024 14:08	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1140**	µmhos/cm @25C	1	05/13/2024 14:08	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**720**	mg/L	2.5	05/17/2024 11:06	R347497
SW-846 9036 (TOTAL)								
Sulfate	NELAP	20		**100**	mg/L	2	05/23/2024 13:42	R347806
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.28**	mg/L	1	05/20/2024 14:18	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**27**	mg/L	1	05/21/2024 2:40	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.605**	mg/L	1	05/23/2024 13:39	223235
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/23/2024 13:39	223235
Boron	NELAP	0.0200		**3.92**	mg/L	1	05/29/2024 13:46	223235
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/23/2024 13:39	223235
Calcium	NELAP	0.100		**141**	mg/L	1	05/23/2024 13:39	223235
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:39	223235
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:39	223235
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/23/2024 13:39	223235
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/30/2024 11:09	223235
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/23/2024 13:39	223235
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**0.0014**	mg/L	5	05/28/2024 8:24	223235
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 23:29	223235
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 23:29	223235
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/23/2024 23:29	223235
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/22/2024 19:14	223259
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-015
Client Sample ID: AP-14
Matrix: GROUNDWATER
Collection Date: 05/14/2024 10:38

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**508.40**	ft	1	05/14/2024 10:38	R347528
Depth to water	*	-5.00		**-1.25**	ft	1	05/14/2024 10:38	R347528
Depth to water from measuring point	*	0		**1.55**	ft	1	05/14/2024 10:38	R347528
Elevation of groundwater surface	*	0		**538.05**	ft	1	05/14/2024 10:38	R347528
Measuring Point Elevation	*	0		**539.60**	ft	1	05/14/2024 10:38	R347528
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	05/14/2024 10:38	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**2.9**	NTU	1	05/14/2024 10:38	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.4**	°F	1	05/14/2024 10:38	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.95**		1	05/14/2024 10:38	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1120**	µmhos/cm @25C	1	05/14/2024 10:38	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1480**	mg/L	2.5	05/17/2024 11:06	R347497
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**740**	mg/L	20	05/21/2024 3:25	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.24**	mg/L	1	05/20/2024 14:25	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**83**	mg/L	5	05/21/2024 3:20	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0329**	mg/L	1	05/23/2024 13:40	223235
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/23/2024 13:40	223235
Boron	NELAP	0.0400		**22.3**	mg/L	2	05/29/2024 13:46	223235
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/23/2024 13:40	223235
Calcium	NELAP	0.100		**245**	mg/L	1	05/23/2024 13:40	223235
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:40	223235
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:40	223235
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/23/2024 13:40	223235
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/30/2024 11:10	223235
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/23/2024 13:40	223235
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 23:35	223235
Arsenic	NELAP	0.0010		**0.0019**	mg/L	5	05/23/2024 23:35	223235
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 23:35	223235
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/23/2024 23:35	223235
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/22/2024 19:16	223259
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24050003
Report Date: 15-Jul-24

Carrier: Daniel Crump
Received By: NR

Completed by: Paul Schultz
On: 10-May-24

Reviewed by: Ellie Hopkins
On: 14-May-24

Pages to follow: Chain of custody 6 Extra pages included 74

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	12.1
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐			
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐		
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐			

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

pH strip #96651. - pschultz - 5/10/2024 9:15:35 AM
Additional Nitric Acid (97737) was needed for sample T-2 upon arrival at the laboratory. - pschultz - 5/10/2024 9:15:38 AM

Samples were received on 5/10/2024 at 13:30 on ice [8.3C - LTG#7]. pH strip #96651. WO - pschultz - 5/10/2024 2:41:25 PM

Samples were received on 5/13/2024 at 16:10 on ice [19.3C - LTG#7]. pH strip #96651. NR - pschultz - 5/13/2024 4:45:02 PM
Additional Nitric Acid (97737) was needed for AR-10 upon arrival at the laboratory. NR - pschultz - 5/13/2024 4:45:05 PM

Samples were received on 5/14/2024 at 14:39 on ice [8.1C - LTG#7]. pH strip #96651. NR - pschultz - 5/14/2024 3:02:50 PM

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Pg 1 of 2 Workorder # 24050003

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 12.1 °C LT6#5
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES: pH/Cl ok's!
Added HNO_3 (9225) to T-2 955/10

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
TCarrell

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24050003-001	RW-3	5/9/24 1212	Groundwater	1	2								✔	✔	✔	✔	✔	✔
002	AP-1		Groundwater	1	2								✔	✔	✔	✔	✔	✔
003	AP-2		Groundwater	1	2								✔	✔	✔	✔	✔	✔
004	AP-3		Groundwater	1	2								✔	✔	✔	✔	✔	✔
005	AP-4		Groundwater	1	2								✔	✔	✔	✔	✔	✔
006	AP-5		Groundwater	1	2								✔	✔	✔	✔	✔	✔
007	AP-6		Groundwater	1	2								✔	✔	✔	✔	✔	✔
008	AP-7		Groundwater	1	2								✔	✔	✔	✔	✔	✔
009	AP-8		Groundwater	1	2								✔	✔	✔	✔	✔	✔
010	AP-9		Groundwater	1	2								✔	✔	✔	✔	✔	✔
011	AP-10		Groundwater	1	2								✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
Daniel Crump	5-9 1635	Krista Reed	5/9/24 1635

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24050003

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power

Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building

City/State/Zip: Springfield IL 62712

Contact: Eric Staley Phone: (217) 757-8610

Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No

Are these samples known to be hazardous? ☐ Yes ☑ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 12.1 °C TGH

Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY

LAB NOTES:

Client Comments:

*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER

Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME

TCarroll

RESULTS REQUESTED

☑ Standard ☐ 1-2 Day (100% Surcharge)

☐ Other ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24050003-012	AP-11	14:28 5/9/24 TE ~~5/10~~ 5/9/24	Groundwater	1	2								✔	✔	✔	✔	✔	✔
013	AP-12	5/9/24 13:14	Groundwater	1	2								✔	✔	✔	✔	✔	✔
014	AP-13	5/9/24 1350	Groundwater	1	2								✔	✔	✔	✔	✔	✔
015	AP-14	TE 5/9/24 5/22/24	Groundwater	1	2								✔	✔	✔	✔	✔	✔
016	T-1	11:10 5/9/24 ~~1428~~	Groundwater	1	2								✔	✔	✔	✔	✔	✔
017	T-2	5/9/24 1145	Groundwater	1	2								✔	✔	✔	✔	✔	✔
018	T-4		Groundwater	1	2								✔	✔	✔	✔	✔	✔
019	T-5		Groundwater	1	2								✔	✔	✔	✔	✔	✔
020	T-6		Groundwater	1	2								✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
Daniel Crump	5-9-1635	Brian Koch	5/9/24 1635

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24050003

1-T6-7

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 8.3 °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES: pH Y 916657 5/10 JD

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

PROJECT NAME/NUMBER: Ash Pond Monitoring Wells
SAMPLE COLLECTOR'S NAME: Justin Gelp

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24050003-001	RW-3		Groundwater	1	2								✔	✔	✔	✔	✔	✔
002	AP-1		Groundwater	1	2								✔	✔	✔	✔	✔	✔
003	AP-2		Groundwater	1	2								✔	✔	✔	✔	✔	✔
004	AP-3		Groundwater	1	2								✔	✔	✔	✔	✔	✔
005	AP-4		Groundwater	1	2								✔	✔	✔	✔	✔	✔
006	AP-5		Groundwater	1	2								✔	✔	✔	✔	✔	✔
007	AP-6	5-10-24 / 1013	Groundwater	1	2								✔	✔	✔	✔	✔	✔
008	AP-7		Groundwater	1	2								✔	✔	✔	✔	✔	✔
009	AP-8	5-10-24 / 1035	Groundwater	1	2								✔	✔	✔	✔	✔	✔
010	AP-9		Groundwater	1	2								✔	✔	✔	✔	✔	✔
011	AP-10		Groundwater	1	2								✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
J. Gelp	5-10-24 / 1330	[signature]	5/10/24 1330

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24050003

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 1.9.3 °C LTG-7
Preserved in: [X] LAB [ ] FIELD FOR LAB USE ONLY
LAB NOTES: Added HNO_3 (97737) to AR-10 96651 MM 5/13

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

PROJECT NAME/NUMBER	SAMPLE COLLECTOR'S NAME
Ash Pond Monitoring Wells	Justin Colp

RESULTS REQUESTED: [✓] Standard [ ] 1-2 Day (100% Surcharge) [ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24050003-001	RW-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	AP-1	5-13-24 / 1101	Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	AP-2	5-13-24 / 1153	Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	AP-3	5-13-24 / 1243	Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	AP-4	5-13-24 / 1325	Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	AP-5	~~5-13-24~~	Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	AP-6		Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	AP-7		Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AP-8		Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AP-9		Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	AP-10	5-13-24 / 1408	Groundwater	1	2								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
Daniel Crump	5-13-24 / 1610	Whitney Queen	5/13/24 1610

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24050003

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 4.0 °C LAB#1
Preserved in: [ ] LAB [X] FIELD FOR LAB USE ONLY
LAB NOTES: 9665 ma 5/14

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Gay

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24050003-001	RW-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	AP-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	AP-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	AP-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	AP-4		Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	AP-5	5-14-24 / 0954	Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	AP-6		Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	AP-7	5-14-24 / 1121	Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AP-8		Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AP-9	5-14-24 / 1145	Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	AP-10		Groundwater	1	2								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
Daniel Crump	5-14-24 / 1439	[signature]	5/14/24 1439

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24050003

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Colp

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24050003-012	AP-11		Groundwater	1	2								✔	✔	✔	✔	✔	✔
013	AP-12		Groundwater	1	2								✔	✔	✔	✔	✔	✔
014	AP-13		Groundwater	1	2								✔	✔	✔	✔	✔	✔
015	AP-14	5-14-24 / 1038	Groundwater	1	2								✔	✔	✔	✔	✔	✔
016	T-1		Groundwater	1	2								✔	✔	✔	✔	✔	✔
017	T-2		Groundwater	1	2								✔	✔	✔	✔	✔	✔
018	T-4	5-14-24 / 1236	Groundwater	1	2								✔	✔	✔	✔	✔	✔
019	T-5	5-14-24 / 1103	Groundwater	1	2								✔	✔	✔	✔	✔	✔
020	T-6	5-14-24 / 1155	Groundwater	1	2								✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
Daniel Gump	5-14-24 / 1439		5/14/24 1439

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Summary
CWLP- Ash Ponds- 2Q 2024

			Weather				Well Condition				
WO Sample	**Well ID**	**Program/ Sample Type**	**Temp (°F)**	**Precipitation**	**Wind Direction**	**Sky**	**Well Pad**	**Casing**	**Protective Cover**	**Reference Mark/ ID**	**Well Locked**
001	RW-3	Groundwater Sample	73.0	None	S	Partly cloudy	Good	Good	Good	Yes	No
002	AP-1	Groundwater Sample	68.0	None	N	Cloudy	Good	Good	Good	Yes	No
003	AP-2	Groundwater Sample	70.0	None	N	Cloudy	Good	Good	Good	Yes	No
004	AP-3	Groundwater Sample	69.0	Light	N	Cloudy	Good	Good	Good	Yes	No
005	AP-4	Groundwater Sample	73.0	None	S	Cloudy	Good	Good	Good	Yes	No
006	AP-5	Groundwater Sample	64.0	Light	E	Cloudy	Good	Good	Good	Yes	No
007	AP-6	Groundwater Sample	68.0	None	W	Partly cloudy	Good	Good	Good	Yes	No
008	AP-7	Groundwater Sample	65.0	None	E	Cloudy	Good	Good	Good	Yes	No
009	AP-8	Groundwater Sample	59.0	None	E	Clear	Good	Good	Good	Yes	No
010	AP-9	Groundwater Sample	65.0	None	E	Cloudy	Good	Good	Good	Yes	No
011	AP-10	Groundwater Sample	71.0	Light	N	Partly cloudy	Good	Good	Good	Yes	No
012	AP-11	Groundwater Sample	72.0	None	E	Partly cloudy	Good	Good	Good	Yes	No
013	AP-12	Groundwater Sample	72.0	None	E	Cloudy	Good	Good	Good	Yes	No
014	AP-13	Groundwater Sample	72.0	None	E	Partly cloudy	Good	Good	Good	Yes	No
015	AP-14	Groundwater Sample	64.0	Heavy	E	Cloudy	Good	Good	Good	Yes	No
016	T-1	Groundwater Sample	70.0	None	E	Cloudy	Good	Good	Good	Yes	No
017	T-2	Groundwater Sample	71.0	None	E	Cloudy	Good	Good	Good	Yes	No
018	T-4	Groundwater Sample	70.0	None	W	Cloudy	Good	Good	Good	Yes	No
019	T-5	Groundwater Sample	65.0	Light	W	Cloudy	Good	Good	Good	Yes	No
020	T-6	Groundwater Sample	68.0	None	W	Cloudy	Good	Good	Good	Yes	No

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Summary
CWLP- Ash Ponds- 2Q 2024

		GW Level Measurement				Purge Activities							
WO Sample	**Well ID**	**Sampler Initials**	**Date/Time**	**DTW (ft)**	**DTB (ft)**	**Sampler Initials**	**Purge Date**	**Purge Start Time**	**Purge End Time**	**Purging/Sampling Device**	**Well Diameter (in)**	**Actual Volume Purged (L)**	**Purge Rate (mL/min)**
001	RW-3	TAC	5/9/24 11:19	7.87	44.01	TAC	5/9/2024	11:23	12:12	Bladder Pump	2"	9.0	183.7
002	AP-1	PY	5/13/24 10:25	8.88	31.08	PY	5/13/2024	10:29	11:01	Bladder Pump	2"	11.0	343.7
003	AP-2	PY	5/13/24 11:24	7.05	21.33	PY	5/13/2024	11:25	11:53	Bladder Pump	2"	11.0	392.9
004	AP-3	PY	5/13/24 12:10	9.11	20.80	PY	5/13/2024	12:12	12:43	Bladder Pump	2"	13.0	419.4
005	AP-4	JC	5/13/24 13:08	8.68	60.41	JC	5/13/2024	13:08	13:25	Bladder Pump	2"	5.0	294.1
006	AP-5	JC	5/14/24 9:43	13.60	31.27	JC	5/14/2024	09:43	09:54	Bladder Pump	2"	3.0	272.7
007	AP-6	TAC	5/10/24 9:25	6.57	39.62	TAC	5/10/2024	09:26	10:13	Bladder Pump	2"	8.0	170.2
008	AP-7	JC	5/14/24 11:00	9.87	42.52	JC	5/14/2024	11:01	11:21	Bladder Pump	2"	4.0	200.0
009	AP-8	BG	5/10/24 9:54	3.74	39.60	BG	5/10/2024	09:54	10:35	Peristaltic Pump	2"	5.0	122.0
010	AP-9	JC	5/14/24 11:31	11.87	39.60	JC	5/28/1901	11:31	11:45	Bladder Pump	2"	4.0	285.7
011	AP-10	PY	5/13/24 13:16	2.54	38.07	PY	5/13/2024	13:23	14:08	Peristaltic Pump	2"	13.5	300.0
012	AP-11	BG	5/9/24 13:59	9.75	22.95	BG	5/9/2024	13:59	14:28	Peristaltic Pump	2"	8.5	293.1
013	AP-12	BG	5/9/24 12:26	12.24	30.40	BG	5/9/2024	12:26	13:14	Peristaltic Pump	2"	5.0	104.2
014	AP-13	BG	5/9/24 13:26	10.82	31.00	BG	5/9/2024	13:26	13:50	Peristaltic Pump	2"	2.0	83.3
015	AP-14	JC	5/14/24 10:12	1.55	31.20	JC	5/14/2024	10:12	10:38	Submersible Pump	2"	10.0	384.6
016	T-1	BG	5/9/24 12:15	9.78	22.95	BG	5/9/2024	10:44	11:10	Peristaltic Pump	2"	3.0	115.4
017	T-2	BG	5/9/24 11:22	19.25	34.44	BG	5/9/2024	11:22	11:45	Peristaltic Pump	2"	3.0	130.4
018	T-4	PY	5/14/24 12:09	12.72	27.42	PY	5/14/2024	12:10	12:36	Peristaltic Pump	2"	8.0	307.7
019	T-5	PY	5/14/24 10:26	5.30	22.34	Py	5/14/2024	10:31	11:03	Peristaltic Pump	2"	8.0	250.0
020	T-6	py	5/14/24 11:15	8.45	43.62	PY	5/14/2024	11:20	11:55	Peristaltic Pump	2"	8.0	228.6

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Summary
CWLP- Ash Ponds- 2Q 2024

		Sampling Activities and Observations									
WO Sample	**Well ID**	**Sampler Initials**	**Date**	**Time**	**Sampling Method**	**Field Filtered**	**Appearance**	**Odor**	**Color**	**Post-Sample DTW (ft)**	**Drawdown (ft)**
001	RW-3	TAC	05/09/24	12:12	Low Flow	Yes	Clear	None	None	14.87	**7.00**
002	AP-1	TAC	05/13/24	11:01	Low Flow	No	Clear	None	None	9.26	0.38
003	AP-2	TAC	05/13/24	11:53	Low Flow	No	Clear	None	None	7.17	0.12
004	AP-3	TAC	05/13/24	12:43	Low Flow	No	Clear	None	None	9.30	0.19
005	AP-4	JC	05/13/24	13:25	Low Flow	No	Clear	None	none	9.05	0.37
006	AP-5	JC	05/14/24	09:54	Low Flow	No	Clear	None	none	14.51	**0.91**
007	AP-6	TAC	05/10/24	10:13	Low Flow	No	Clear	None	None	15.10	**8.53**
008	AP-7	JC	05/14/24	11:21	Low Flow	No	Clear	None	none	12.47	**2.60**
009	AP-8	BG	05/10/24	`1035	Low Flow	No	Clear	None	CLEAR	4.04	0.30
010	AP-9	JC	05/14/24	11:45	Low Flow	No	Slightly cloudy	None	lt brown	12.46	**0.59**
011	AP-10	TAC	05/13/24	14:08	Low Flow	No	Clear	None	None	2.81	0.27
012	AP-11	BG	05/09/24	14:28	Low Flow	No	Slightly cloudy	Slight	LT BROWN	9.86	0.11
013	AP-12	BG	05/09/24	13:14	Low Flow	No	Cloudy	Moderate	GRAY	13.25	**1.01**
014	AP-13	BG	05/09/24	13:50	Low Flow	No	Clear	Slight	Lt GRAY	11.02	0.20
015	AP-14	JC	05/14/24	10:38	Low Flow	No	Clear	None	none	1.89	0.34
016	T-1	BG	05/09/24	11:10	Low Flow	No	Clear	None	Clear	10.42	**0.64**
017	T-2	BG	05/09/24	11:45	Low Flow	No	Clear	None	CLEAR	20.12	**0.87**
018	T-4	TAC	05/14/24	12:36	Low Flow	No	Clear	None	None	14.26	**1.54**
019	T-5	TAC	05/14/24	11:03	Low Flow	No	Clear	None	None	6.36	**1.06**
020	T-6	TAC	05/14/24	11:55	Low Flow	No	Clear	None	None	8.89	0.44

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Summary
CWLP- Ash Ponds- 2Q 2024

WO Sample	Well ID	COMMENTS
001	RW-3	
002	AP-1	
003	AP-2	
004	AP-3	
005	AP-4	
006	AP-5	
007	AP-6	
008	AP-7	
009	AP-8	
010	AP-9	
011	AP-10	
012	AP-11	
013	AP-12	
014	AP-13	
015	AP-14	
016	T-1	
017	T-2	
018	T-4	
019	T-5	
020	T-6	

Site Samping Event: CWLP- 2Q24

LIMS Workorder: 24050003

Technician(s): DC, JC, TC, BG, PY

Stabilized Field Parameters Summary

CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	LIMS ID
RW-3	5/9/2024	12:12	15.1	59.14	6.70	644.4	0.82	23.40	-105.9	7.87	24050003-001A
AP-1	5/13/2024	11:01	14.7	58.50	6.31	1,758.0	0.69	5.74	-86.5	8.88	24050003-002A
AP-2	5/13/2024	11:53	15.1	59.18	6.21	1,286.5	0.68	4.90	-5.8	7.05	24050003-003A
AP-3	5/13/2024	12:43	16.0	60.86	6.36	1,218.9	0.68	2.72	-53.2	9.11	24050003-004A
AP-4	5/13/2024	13:25	17.2	62.96	6.83	588.1	0.40	23.97	-122.8	8.68	24050003-005A
AP-5	5/14/2024	9:54	13.6	56.49	6.99	468.0	0.71	5.17	-67.9	13.60	24050003-006A
AP-6	5/10/2024	10:13	13.5	56.26	7.27	661.5	3.05	18.97	-20.0	6.57	24050003-007A
AP-7	5/14/2024	11:21	14.2	57.47	7.15	440.8	0.92	17.95	-122.2	9.87	24050003-008A
AP-8	5/10/2024	10:35	15.2	59.32	7.03	916.7	1.05	33.67	-116.8	3.74	24050003-009A
AP-9	5/14/2024	11:45	14.6	58.19	6.75	658.9	0.41	39.76	-40.2	11.87	24050003-010A
AP-10	5/13/2024	14:08	15.8	60.36	6.54	1,142.7	1.49	6.02	-81.1	2.54	24050003-011A
AP-11	5/9/2024	14:28	17.7	63.82	6.75	1,351.2	2.84	60.05	-61.7	9.75	24050003-012A
AP-12	5/9/2024	13:14	15.8	60.52	6.52	1,675.9	1.31	88.76	-60.3	12.24	24050003-013A
AP-13	5/9/2024	13:50	16.3	61.41	6.70	804.3	2.21	5.64	-73.7	10.82	24050003-014A
AP-14	5/14/2024	10:38	13.6	56.43	6.95	1,124.6	0.14	2.92	-48.8	1.55	24050003-015A
T-1	5/9/2024	11:10	14.1	57.40	6.57	780.0	1.98	2.28	30.9	9.78	24050003-016A
T-2	5/9/2024	11:45	14.9	58.79	6.51	1,979.6	2.28	3.93	14.9	19.25	24050003-017A
T-4	5/14/2024	12:36	12.8	55.03	6.31	463.7	1.11	8.09	-2.7	12.72	24050003-018A
T-5	5/14/2024	11:03	12.3	54.09	6.62	489.5	1.35	5.40	-1.5	5.30	24050003-019A
T-6	5/14/2024	11:55	14.6	58.34	6.56	852.5	1.03	32.75	-93.5	8.45	24050003-020A

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
RW-3	5/9/2024	11:42	7.87	14.5	58.2	6.69	602.3	1.26	10.26	-78.5
RW-3	5/9/2024	11:45	7.87	14.5	58.2	6.69	608.1	1.20	11.81	-82.6
RW-3	5/9/2024	11:48	7.87	14.8	58.6	6.69	611.2	1.15	14.38	-85.6
RW-3	5/9/2024	11:51	7.87	15.0	59.0	6.68	619.0	1.10	17.50	-88.8
RW-3	5/9/2024	11:54	7.87	14.9	58.9	6.68	629.8	1.02	23.27	-93.1
RW-3	5/9/2024	11:57	7.87	14.9	58.9	6.68	634.7	0.97	23.78	-96.7
RW-3	5/9/2024	12:00	7.87	15.0	58.9	6.68	637.4	0.93	27.74	-99.1
RW-3	5/9/2024	12:03	7.87	15.0	58.9	6.69	640.9	0.89	18.67	-101.4
RW-3	5/9/2024	12:06	7.87	14.9	58.7	6.69	642.7	0.87	18.32	-103.1
RW-3	5/9/2024	12:09	7.87	15.0	59.0	6.69	642.8	0.84	18.38	-104.6
RW-3	5/9/2024	12:12	7.87	15.1	59.1	6.70	644.4	0.82	23.40	-105.9

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-1	5/13/2024	10:46	8.88	14.6	58.3	6.31	1,732.8	0.88	13.23	-81.0
AP-1	5/13/2024	10:49	8.88	14.6	58.3	6.31	1,749.6	0.82	11.40	-83.0
AP-1	5/13/2024	10:52	8.88	14.7	58.4	6.32	1,753.7	0.77	8.65	-84.2
AP-1	5/13/2024	10:55	8.88	14.6	58.3	6.32	1,757.7	0.74	7.76	-85.0
AP-1	5/13/2024	10:58	8.88	14.7	58.4	6.31	1,757.9	0.71	6.77	-85.8
AP-1	5/13/2024	11:01	8.88	14.7	58.5	6.31	1,758.0	0.69	5.74	-86.5

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-2	5/13/2024	11:35	7.05	13.5	56.3	6.26	1,257.7	1.06	15.63	-9.9
AP-2	5/13/2024	11:38	7.05	13.6	56.4	6.23	1,261.1	0.90	10.12	-7.8
AP-2	5/13/2024	11:41	7.05	13.6	56.5	6.22	1,267.6	0.81	8.13	-6.6
AP-2	5/13/2024	11:44	7.05	13.6	56.5	6.21	1,274.1	0.75	7.60	-5.7
AP-2	5/13/2024	11:47	7.05	13.6	56.5	6.20	1,282.5	0.70	6.27	-5.1
AP-2	5/13/2024	11:50	7.05	14.9	58.8	6.20	1,279.4	0.68	5.98	-5.6
AP-2	5/13/2024	11:53	7.05	15.1	59.2	6.21	1,286.5	0.68	4.90	-5.8

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-3	5/13/2024	12:25	9.11	13.8	56.8	6.38	1,211.7	0.90	4.95	-52.3
AP-3	5/13/2024	12:28	9.11	13.8	56.8	6.37	1,212.2	0.80	4.33	-53.6
AP-3	5/13/2024	12:31	9.11	13.8	56.8	6.36	1,213.0	0.74	3.58	-54.0
AP-3	5/13/2024	12:34	9.11	13.8	56.8	6.35	1,212.9	0.69	3.39	-54.4
AP-3	5/13/2024	12:37	9.11	14.9	58.8	6.35	1,198.9	0.67	3.08	-54.7
AP-3	5/13/2024	12:40	9.11	15.7	60.3	6.35	1,213.7	0.68	2.95	-54.6
AP-3	5/13/2024	12:43	9.11	16.0	60.9	6.36	1,218.9	0.68	2.72	-53.2

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-4	5/13/2024	13:16	8.68	17.4	63.3	6.81	587.7	0.73	18.58	-112.0
AP-4	5/13/2024	13:19	8.68	17.3	63.1	6.82	588.2	0.52	19.29	-118.2
AP-4	5/13/2024	13:22	8.68	17.3	63.1	6.83	588.6	0.44	20.77	-121.0
AP-4	5/13/2024	13:25	8.68	17.2	63.0	6.83	588.1	0.40	23.97	-122.8

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-5	5/14/2024	9:45	13.60	13.1	55.7	6.97	467.0	1.57	7.43	-60.2
AP-5	5/14/2024	9:48	13.60	13.8	56.8	6.97	466.2	1.00	6.39	-71.9
AP-5	5/14/2024	9:51	13.60	13.7	56.6	6.98	466.6	0.80	5.66	-70.7
AP-5	5/14/2024	9:54	13.60	13.6	56.5	6.99	468.0	0.71	5.17	-67.9

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-6	5/10/2024	9:58	6.57	13.4	56.1	7.27	659.7	3.33	9.25	-13.2
AP-6	5/10/2024	10:01	6.57	13.3	56.0	7.27	659.7	3.28	12.13	-15.2
AP-6	5/10/2024	10:04	6.57	13.3	55.9	7.27	659.9	3.22	14.64	-15.2
AP-6	5/10/2024	10:07	6.57	13.3	55.9	7.27	660.5	3.14	17.45	-16.6
AP-6	5/10/2024	10:10	6.57	13.4	56.1	7.27	660.6	3.09	16.86	-19.0
AP-6	5/10/2024	10:13	6.57	13.5	56.3	7.27	661.5	3.05	18.97	-20.0

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-7	5/14/2024	11:03	9.87	13.9	57.0	7.27	422.2	1.76	10.35	-106.4
AP-7	5/14/2024	11:06	9.87	14.3	57.7	7.15	435.9	0.74	24.14	-136.6
AP-7	5/14/2024	11:09	9.87	14.0	57.2	7.13	457.1	0.82	56.85	-134.2
AP-7	5/14/2024	11:12	9.87	13.9	57.1	7.14	443.5	0.93	30.37	-126.5
AP-7	5/14/2024	11:15	9.87	14.0	57.2	7.15	438.8	0.96	18.73	-123.1
AP-7	5/14/2024	11:18	9.87	14.0	57.1	7.15	439.0	0.94	15.25	-122.2
AP-7	5/14/2024	11:21	9.87	14.2	57.5	7.15	440.8	0.92	17.95	-122.2

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-8	5/10/2024	10:05	3.74	14.3	57.8	7.04	919.3	1.52	37.07	-118.2
AP-8	5/10/2024	10:08	3.74	14.4	57.9	7.04	913.6	1.47	39.30	-117.1
AP-8	5/10/2024	10:11	3.74	15.0	59.0	7.03	916.0	1.50	43.50	-116.5
AP-8	5/10/2024	10:14	3.74	14.3	57.8	7.03	918.1	1.38	30.38	-116.8
AP-8	5/10/2024	10:17	3.74	14.2	57.5	7.03	914.2	1.28	27.88	-117.5
AP-8	5/10/2024	10:20	3.74	14.5	58.2	7.03	915.8	1.18	30.64	-118.3
AP-8	5/10/2024	10:23	3.74	14.3	57.7	7.03	916.7	1.17	23.09	-118.3
AP-8	5/10/2024	10:26	3.74	14.5	58.0	7.03	915.1	1.12	25.30	-118.0
AP-8	5/10/2024	10:29	3.74	14.5	58.2	7.02	915.9	1.11	30.18	-117.8
AP-8	5/10/2024	10:32	3.74	14.8	58.7	7.03	916.3	1.07	32.46	-117.5
AP-8	5/10/2024	10:35	3.74	15.2	59.3	7.03	916.7	1.05	33.67	-116.8

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-10	5/13/2024	13:41	2.54	16.0	60.8	6.56	1,139.8	2.71	8.84	-74.2
AP-10	5/13/2024	13:44	2.54	15.9	60.6	6.56	1,140.3	2.51	24.11	-75.1
AP-10	5/13/2024	13:47	2.54	15.9	60.6	6.56	1,141.1	2.32	34.69	-76.2
AP-10	5/13/2024	13:50	2.54	15.8	60.5	6.55	1,142.6	2.16	7.01	-76.9
AP-10	5/13/2024	13:53	2.54	15.8	60.5	6.55	1,141.8	2.02	6.73	-77.7
AP-10	5/13/2024	13:56	2.54	15.7	60.2	6.55	1,141.9	1.90	13.94	-78.4
AP-10	5/13/2024	13:59	2.54	15.6	60.1	6.55	1,142.5	1.78	6.44	-79.2
AP-10	5/13/2024	14:02	2.54	15.6	60.1	6.55	1,141.8	1.67	5.10	-79.9
AP-10	5/13/2024	14:05	2.54	15.6	60.1	6.54	1,143.8	1.58	3.59	-80.3
AP-10	5/13/2024	14:08	2.54	15.8	60.4	6.54	1,142.7	1.49	6.02	-81.1

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-14	5/14/2024	10:20	1.55	13.6	56.5	6.99	1,118.6	1.95	42.77	41.6
AP-14	5/14/2024	10:23	1.55	13.7	56.6	6.97	1,121.3	1.26	26.70	-11.0
AP-14	5/14/2024	10:26	1.55	13.5	56.3	6.98	1,121.7	1.14	22.63	-20.7
AP-14	5/14/2024	10:29	1.55	13.2	55.7	6.97	1,122.8	0.84	466.73	-29.2
AP-14	5/14/2024	10:32	1.55	13.5	56.3	6.96	1,123.9	0.51	11.22	-38.5
AP-14	5/14/2024	10:35	1.55	13.5	56.3	6.95	1,124.8	0.18	3.78	-46.0
AP-14	5/14/2024	10:38	1.55	13.6	56.4	6.95	1,124.6	0.14	2.92	-48.8

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- Ash Ponds- 2Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 26599 Technician(s): B. Gillihan Date: 5/9/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	5/9/24 9:25
7.0 Buffer	WC240307F	7.00	5/9/24 9:37
10.0 Buffer	WC231027D	10.01	5/9/24 9:40
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	5/9/24 9:42

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.5	5/9/24 9:51
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1	LCS	5/9/24 18:30	18.96	7.00	1,412	1.5		
CCV-1	CCV	5/9/24 18:29	20.62	7.02	1,413	1.5		

Comments:

Field Meter ID: Pine 26599 Technician(s): B. Gillihan Date: 5/10/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.01	5/10/24 8:54
7.0 Buffer	WC240307F	7.02	5/10/24 16:36
10.0 Buffer	WC231027D	10.00	5/10/24 16:36
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1413	5/10/24 16:38

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.5	5/10/24 16:38
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2	LCS	5/10/24 16:38	18.65	7.01	1,413	1.5		
CCV-2	CCV	5/10/24 16:39	20.64	7.02	1,415	1.4		

Comments:

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- Ash Ponds- 2Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 26599 Technician(s): B. Gillihan Date: 5/13/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	5/13/24 9:29
7.0 Buffer	WC240307F	7.03	5/13/24 9:36
10.0 Buffer	WC231027D	10.01	5/13/24 9:42
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1415	5/13/24 9:51

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.6	5/13/24 9:58
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3	LCS	5/13/24 10:05	19.72	7.02	1,415	1.6		
CCV-3	CCV	5/13/24 11:05	20.01	7.01	1,415	1.5		

Comments:

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- Ash Ponds- 2Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 45986 Technician(s): Daniel Crump/Tracy Carroll Date: 5/8/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	5/8/24 10:09
7.0 Buffer	WC240307F	7.01	5/8/24 10:07
10.0 Buffer	WC230619B	10.00	5/8/24 10:11
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	5/8/24 10:14

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1	LCS	5/8/24 10:16	22.9	7.09	1,413			
CCV-1	CCV	5/8/24 13:21	21	7.02	1,439			

Comments:

Field Meter ID: Pine 45986 Technician(s): Tracy Carroll Date: 5/9/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	5/9/24 11:02
7.0 Buffer	WC240307F	7.02	5/9/24 11:01
10.0 Buffer	WC230619B	10.00	5/9/24 11:03
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	5/9/24 11:11

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2	LCS	5/9/24 11:16	24.2	7.06	1,413			
CCV-2	CCV	5/9/24 15:03	25.2	7.08	1,488			

Comments:

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- Ash Ponds- 2Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 45986 Technician(s): Tracy Carroll Date: 5/10/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	5/10/24 9:28
7.0 Buffer	WC240307F	7.04	5/10/24 9:25
10.0 Buffer	WC230619B	10.00	5/10/24 9:31
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	5/10/24 9:32

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3	LCS	5/10/24 9:36	14.5	7.05	1,414	1.95		
CCV-3	CCV	5/10/24 10:55	15.2	7.04	1,488			

Comments:

Field Meter ID: Pine 45986 Technician(s): Tracy Carroll/Payton Yoch Date: 5/13/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	5/13/24 10:00
7.0 Buffer	WC240307F	7.01	5/13/24 9:57
10.0 Buffer	WC230619B	10.00	5/13/24 10:04
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	5/13/24 10:09

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-4	LCS	5/13/24 10:14	23.7	6.99	1,411			
CCV-4	CCV	5/13/24 14:33	28	6.90	1,435			

Comments:

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- Ash Ponds- 2Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 45986 Technician(s): Tracy Carroll/Payton Yoch Date: 5/14/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	5/14/24 10:22
7.0 Buffer	WC240307F	7.01	5/14/24 10:22
10.0 Buffer	WC230619B	10.00	5/14/24 10:23
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	5/14/24 10:23

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-5	LCS	5/14/24 10:25	23.7	6.99	1,412			
CCV-5	CCV	5/14/24 13:30	22.9	7.02	1,455			

Comments:

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- Ash Ponds- 2Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 218083 Technician(s): justin colp Date: 5/9/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230830b	3.99	5/9/24 9:29
7.0 Buffer	wc240307f	7.01	5/9/24 9:23
10.0 Buffer	wc231027d	10.00	5/9/24 9:37
LCS/CCV (7.0 Buffer)			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1409	5/9/24 9:41

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.93	5/9/24 9:42
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1	LCS	5/9/24 9:44	20.5	7.01	1,409	0.93		
CCV-M-1	CCV	5/9/24 12:11	21.7	7.03	1,421	0.96		
CCV-1	CCV	5/9/24 14:35	22.8	7.03	1,424	1.04		

Comments:

Field Meter ID: Pine 218083 Technician(s): justin colp Date: 5/10/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230830b	4.00	5/10/24 9:32
7.0 Buffer	wc240307f	7.02	5/10/24 9:30
10.0 Buffer	wc231027d	9.98	5/10/24 9:35
LCS/CCV (7.0 Buffer)			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1410	5/10/24 9:40

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.87	5/10/24 9:40
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2	LCS	5/10/24 9:43	18.8	7.02	1,410	0.87		
CCV-2	CCV	5/10/24 10:58	19.7	7.02	1,416	0.89		

Comments:

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- Ash Ponds- 2Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 218083 Technician(s): justin colp Date: 5/13/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230830b	4.01	5/13/24 9:49
7.0 Buffer	wc240307f	7.01	5/13/24 9:43
10.0 Buffer	wc231027d	9.98	5/13/24 9:58
LCS/CCV (7.0 Buffer)			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	5/13/24 9:58

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.86	5/13/24 9:58
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3	LCS	5/13/24 10:00	21.7	7.01	1,412	0.86		
CCV-3	CCV	5/13/24 14:28	22.1	7.03	1,420	0.92		

Comments:

Field Meter ID: Pine 218083 Technician(s): justin colp Date: 5/14/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230830b	3.98	5/14/24 9:25
7.0 Buffer	wc240307f	7.00	5/14/24 9:21
10.0 Buffer	wc231027d	9.99	5/14/24 9:28
LCS/CCV (7.0 Buffer)			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1410	5/14/24 9:35

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.96	5/14/24 9:35
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-4	LCS	5/14/24 9:37	20.2	7.00	1,410	0.96		
CCV-4	CCV	5/14/24 12:17	21	7.01	1,418	0.99		

Comments:

Summit Environmental Technologies, Inc.
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June 12, 2024

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 24050003

Order No.: 24051620

Dear Shelly Hennessy:

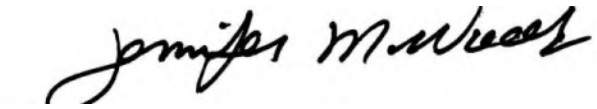
Summit Environmental Technologies, Inc. received 20 sample(s) on 5/17/2024 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,



Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Case Narrative

WO#: **24051620**
Date: **6/12/2024**

CLIENT: TEKLAB Inc,
Project: 24050003

WorkOrder Narrative:
24051620: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Sequence QC Notes:
LCS/LCSD-75651 Radium-228_NPW(904.0): LCS/LCSD exhibited a high RPD, individually each LCS/LCSD meets required criteria.
LCS/LCSD-75699 Radium-228_DW(904.0): LCS/LCSD exhibited a high RPD, individually each LCS/LCSD meets the required criteria.
LCS/LCSD-75740 Radium-226_DW(903.0): LCS/LCSD exhibit a high RPD, individually each LCS/LCSD meet required criteria.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

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Cuyahoga Falls, Ohio 4422
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Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **24051620**
Date: **6/12/2024**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Workorder Sample Summary

WO#: **24051620**
12-Jun-24

CLIENT: TEKLAB Inc,
Project: 24050003

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24051620-001	24050003-001		5/9/2024 12:12:00 PM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-002	24050003-002		5/13/2024 11:01:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-003	24050003-003		5/13/2024 11:53:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-004	24050003-004		5/13/2024 12:43:00 PM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-005	24050003-005		5/13/2024 1:25:00 PM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-006	24050003-006		5/14/2024 9:54:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-007	24050003-007		5/10/2024 10:13:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-008	24050003-008		5/14/2024 11:21:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-009	24050003-009		5/10/2024 10:35:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-010	24050003-010		5/14/2024 11:45:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-011	24050003-011		5/13/2024 2:08:00 PM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-012	24050003-012		5/9/2024 11:10:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-013	24050003-013		5/9/2024 1:14:00 PM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-014	24050003-014		5/9/2024 1:50:00 PM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-015	24050003-015		5/14/2024 10:38:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-016	24050003-016		5/9/2024 2:28:00 PM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-017	24050003-017		5/9/2024 11:45:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-018	24050003-018		5/14/2024 12:36:00 PM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-019	24050003-019		5/14/2024 11:03:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-020	24050003-020		5/14/2024 11:55:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water

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DATES REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,

Project: 24050003

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24051620-001A	24050003-001	5/9/2024 12:12:00 PM	Non-Potable Water	Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-002A	24050003-002	5/13/2024 11:01:00 AM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-003A	24050003-003	5/13/2024 11:53:00 AM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-004A	24050003-004	5/13/2024 12:43:00 PM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-005A	24050003-005	5/13/2024 1:25:00 PM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-006A	24050003-006	5/14/2024 9:54:00 AM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-007A	24050003-007	5/10/2024 10:13:00 AM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-008A	24050003-008	5/14/2024 11:21:00 AM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-009A	24050003-009	5/10/2024 10:35:00 AM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-010A	24050003-010	5/14/2024 11:45:00 AM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-011A	24050003-011	5/13/2024 2:08:00 PM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-012A	24050003-012	5/9/2024 11:10:00 AM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM

Original

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Website: http://www.settek.com

DATES REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,

Project: 24050003

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24051620-012A	24050003-012	5/9/2024 11:10:00 AM	Non-Potable Water	Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-013A	24050003-013	5/9/2024 1:14:00 PM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-014A	24050003-014	5/9/2024 1:50:00 PM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-015A	24050003-015	5/14/2024 10:38:00 AM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-016A	24050003-016	5/9/2024 2:28:00 PM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-017A	24050003-017	5/9/2024 11:45:00 AM		Radium-226 (EPA 903.0)		5/29/2024 12:23:00 PM	6/5/2024 10:01:00 AM
				Radium-228 (EPA 904.0)		5/29/2024 12:23:00 PM	6/4/2024 2:54:00 PM
24051620-018A	24050003-018	5/14/2024 12:36:00 PM		Radium-226 (EPA 903.0)		5/29/2024 12:23:00 PM	6/5/2024 10:01:00 AM
				Radium-228 (EPA 904.0)		5/29/2024 12:23:00 PM	6/4/2024 2:54:00 PM
24051620-019A	24050003-019	5/14/2024 11:03:00 AM		Radium-226 (EPA 903.0)		5/30/2024 1:15:00 PM	6/10/2024 12:05:07 PM
				Radium-228 (EPA 904.0)		5/30/2024 1:15:00 PM	6/7/2024 12:56:15 PM
24051620-020A	24050003-020	5/14/2024 11:55:00 AM		Radium-226 (EPA 903.0)		5/30/2024 1:15:00 PM	6/10/2024 12:05:07 PM
				Radium-228 (EPA 904.0)		5/30/2024 1:15:00 PM	6/7/2024 12:56:15 PM

Original

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

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Analytical Report

(consolidated)

WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,

Collection Date: 5/9/2024 12:12:00 PM

Project: 24050003

Lab ID: 24051620-001

Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-001

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.280	1	6/3/2024 2:37:00 PM
Yield	1.00					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,

Collection Date: 5/13/2024 11:01:00 AM

Project: 24050003

Lab ID: 24051620-002

Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-002

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.130	1	6/4/2024 9:57:00 AM
Yield	0.960					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.200	1	6/3/2024 2:37:00 PM
Yield	0.950					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,

Collection Date: 5/13/2024 11:53:00 AM

Project: 24050003

Lab ID: 24051620-003

Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-003

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0600	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.260	1	6/3/2024 2:37:00 PM
Yield	1.00					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

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Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,

Collection Date: 5/13/2024 12:43:00 PM

Project: 24050003

Lab ID: 24051620-004

Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-004

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.250	1	6/3/2024 2:37:00 PM
Yield	1.00					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,

Collection Date: 5/13/2024 1:25:00 PM

Project: 24050003

Lab ID: 24051620-005

Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-005

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.100	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.300	1	6/3/2024 2:37:00 PM
Yield	0.980					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,

Collection Date: 5/14/2024 9:54:00 AM

Project: 24050003

Lab ID: 24051620-006

Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-006

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0300	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.260	1	6/3/2024 2:37:00 PM
Yield	0.980					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

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WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,

Collection Date: 5/10/2024 10:13:00 AM

Project: 24050003

Lab ID: 24051620-007

Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-007

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0500	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.210	1	6/3/2024 2:37:00 PM
Yield	1.00					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,

Collection Date: 5/14/2024 11:21:00 AM

Project: 24050003

Lab ID: 24051620-008

Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-008

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.290	1	6/3/2024 2:37:00 PM
Yield	0.990					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

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WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,

Collection Date: 5/10/2024 10:35:00 AM

Project: 24050003

Lab ID: 24051620-009

Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-009

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.150	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.350	1	6/3/2024 2:37:00 PM
Yield	0.990					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,

Collection Date: 5/13/2024 2:08:00 PM

Project: 24050003

Lab ID: 24051620-011

Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-011

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.170	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.290	1	6/3/2024 2:37:00 PM
Yield	1.00					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,

Collection Date: 5/14/2024 10:38:00 AM

Project: 24050003

Lab ID: 24051620-015

Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-015

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.310	1	6/3/2024 2:37:00 PM
Yield	1.00					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75651**

Sample ID: **MB-75651**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **5/28/2024**	RunNo: **186770**
Client ID: **PBW**	Batch ID: **75651**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/3/2024**	SeqNo: **5060869**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCSD-75651**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **5/28/2024**	RunNo: **186770**
Client ID: **LCSS02**	Batch ID: **75651**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/3/2024**	SeqNo: **5060871**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.50	1.00	5.000	0	90.0	50	130	3.520	24.4	20	R
Yield	1.00			0	0			1.000	0		

Sample ID: **24051612-001ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **5/28/2024**	RunNo: **186770**
Client ID: **BatchQC**	Batch ID: **75651**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/3/2024**	SeqNo: **5060876**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	30	R
Yield	0.970			0	0			1.000	3.05		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75651**

Sample ID: **24051613-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/28/2024** RunNo: **186770**
Client ID: **BatchQC** Batch ID: **75651** TestNo: **E904.0** **E903-904** Analysis Date: **6/3/2024** SeqNo: **5060878**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	30	R
Yield	0.950			0	0			0.9500	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75651**

Sample ID: **24051612-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/28/2024** RunNo: **186773**
Client ID: **BatchQC** Batch ID: **75651** TestNo: **E903.0** **E903-904** Analysis Date: **6/4/2024** SeqNo: **5061011**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	0.960							1.000	4.08	0	

Sample ID: **24051613-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/28/2024** RunNo: **186773**
Client ID: **BatchQC** Batch ID: **75651** TestNo: **E903.0** **E903-904** Analysis Date: **6/4/2024** SeqNo: **5061013**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	0.940							0.9500	1.06	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75651**

Sample ID: **MB-75651**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/28/2024**	RunNo: **186773**
Client ID: **PBW**	Batch ID: **75651**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/4/2024**	SeqNo: **5061004**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	ND										

Sample ID: **LCS-75651**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/28/2024**	RunNo: **186773**
Client ID: **LCSW**	Batch ID: **75651**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/4/2024**	SeqNo: **5061005**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.94	1.00	5.000	0	98.8	70	130				

Sample ID: **LCSD-75651**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/28/2024**	RunNo: **186773**
Client ID: **LCSS02**	Batch ID: **75651**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/4/2024**	SeqNo: **5061006**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.48	1.00	5.000	0	89.6	70	130	4.940	9.77	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75699**

Sample ID: **MB-75699**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **5/29/2024**	RunNo: **186905**
Client ID: **PBW**	Batch ID: **75699**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/4/2024**	SeqNo: **5063570**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-75699**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **5/29/2024**	RunNo: **186905**
Client ID: **LCSW**	Batch ID: **75699**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/4/2024**	SeqNo: **5063571**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.24	1.00	5.000	0	64.8	50	130				QLR
Yield	1.00			0	0						

Sample ID: **LCSD-75699**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **5/29/2024**	RunNo: **186905**
Client ID: **LCSS02**	Batch ID: **75699**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/4/2024**	SeqNo: **5063572**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.05	1.00	5.000	0	81.0	50	130	3.240	22.2	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75699**

Sample ID: **24051688-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/29/2024** RunNo: **186905**
Client ID: **BatchQC** Batch ID: **75699** TestNo: **E904.0** **E903-904** Analysis Date: **6/4/2024** SeqNo: **5063582**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	0.890			0	0			1.000	11.6		

Sample ID: **24051688-002ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/29/2024** RunNo: **186905**
Client ID: **BatchQC** Batch ID: **75699** TestNo: **E904.0** **E903-904** Analysis Date: **6/4/2024** SeqNo: **5063584**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	1.00			0	0			0.9300	7.25		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75699**

Sample ID: **MB-75699**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/29/2024**	RunNo: **186909**
Client ID: **PBW**	Batch ID: **75699**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/5/2024**	SeqNo: **5063797**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-75699**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/29/2024**	RunNo: **186909**
Client ID: **LCSW**	Batch ID: **75699**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/5/2024**	SeqNo: **5063798**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.93	1.00	5.000	0	98.6	70	130				

Sample ID: **LCSD-75699**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/29/2024**	RunNo: **186909**
Client ID: **LCSS02**	Batch ID: **75699**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/5/2024**	SeqNo: **5063799**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.16	1.00	5.000	0	103	70	130	4.930	4.56	20	

Sample ID: **24051688-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/29/2024**	RunNo: **186909**
Client ID: **BatchQC**	Batch ID: **75699**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/5/2024**	SeqNo: **5063808**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75699**

Sample ID: **24051688-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/29/2024** RunNo: **186909**
Client ID: **BatchQC** Batch ID: **75699** TestNo: **E903.0** **E903-904** Analysis Date: **6/5/2024** SeqNo: **5063808**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Sample ID: **24051688-002ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/29/2024** RunNo: **186909**
Client ID: **BatchQC** Batch ID: **75699** TestNo: **E903.0** **E903-904** Analysis Date: **6/5/2024** SeqNo: **5063810**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75740**

Sample ID: **MB-75740**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **5/30/2024**	RunNo: **187287**
Client ID: **PBW**	Batch ID: **75740**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/7/2024**	SeqNo: **5075299**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-75740**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **5/30/2024**	RunNo: **187287**
Client ID: **LCSW**	Batch ID: **75740**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/7/2024**	SeqNo: **5075300**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.94	1.00	5.000	0	78.8	50	130				
Yield	0.890			0	0						

Sample ID: **LCSD-75740**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **5/30/2024**	RunNo: **187287**
Client ID: **LCSS02**	Batch ID: **75740**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/7/2024**	SeqNo: **5075301**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.07	1.00	5.000	0	81.4	50	130	3.940	3.25	20	
Yield	0.860			0	0			0.8900	3.43		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Summit Environmental Technologies, Inc.
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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75740**

Sample ID: **24050773-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/30/2024** RunNo: **187287**
Client ID: **BatchQC** Batch ID: **75740** TestNo: **E904.0** **E903-904** Analysis Date: **6/7/2024** SeqNo: **5075306**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	0.910			0	0			0.8900	2.22		

Sample ID: **24052198-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/30/2024** RunNo: **187287**
Client ID: **BatchQC** Batch ID: **75740** TestNo: **E904.0** **E903-904** Analysis Date: **6/7/2024** SeqNo: **5075324**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	0.930			0	0			0.9600	3.17		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75740**

Sample ID: **MB-75740**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/30/2024**	RunNo: **187303**
Client ID: **PBW**	Batch ID: **75740**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/10/2024**	SeqNo: **5075489**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-75740**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/30/2024**	RunNo: **187303**
Client ID: **LCSW**	Batch ID: **75740**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/10/2024**	SeqNo: **5075490**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.05	1.00	5.000	0	81.0	70	130				QLR

Sample ID: **LCSD-75740**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/30/2024**	RunNo: **187303**
Client ID: **LCSS02**	Batch ID: **75740**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/10/2024**	SeqNo: **5075491**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.95	1.00	5.000	0	99.0	70	130	4.050	20.0	20	R

Sample ID: **24050773-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/30/2024**	RunNo: **187303**
Client ID: **BatchQC**	Batch ID: **75740**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/10/2024**	SeqNo: **5075496**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75740**

Sample ID: **24050773-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/30/2024** RunNo: **187303**
Client ID: **BatchQC** Batch ID: **75740** TestNo: **E903.0** **E903-904** Analysis Date: **6/10/2024** SeqNo: **5075496**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							0.9400	6.19	0	

Sample ID: **24052198-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/30/2024** RunNo: **187303**
Client ID: **BatchQC** Batch ID: **75740** TestNo: **E903.0** **E903-904** Analysis Date: **6/10/2024** SeqNo: **5075514**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	0.960							1.000	4.08	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

24051620

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: 20.0-21.9° Sampler: Client QC Level: 2

20.0 +0.0 = 21.0 +0.0 =
21.9 +0.0 = Fedex, Cooler

Project# 24050003

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site.

Contact: Shelly Hennessy Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT Billing/PO: 36305 Phone: (618) 344-1004 ext. 36

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228												
						CPM						pH					
	24050003-001	5/9/2024 12:12	HNO3	Groundwater	✔		20					1					
	24050003-002	5/13/2024 11:01	HNO3	Groundwater	✔		38					1					
	24050003-003	5/13/2024 11:53	HNO3	Groundwater	✔		28					1					
	24050003-004	5/13/2024 12:43	HNO3	Groundwater	✔		30					1					
	24050003-005	5/13/2024 13:25	HNO3	Groundwater	✔		28					1					
	24050003-006	5/14/2024 09:54	HNO3	Groundwater	✔		34					1					
	24050003-007	5/10/2024 10:13	HNO3	Groundwater	✔		24					1					
	24050003-008	5/14/2024 11:21	HNO3	Groundwater	✔		14					1					
	24050003-009	5/10/2024 10:35	HNO3	Groundwater	✔		36					1					
	24050003-010	5/14/2024 11:45	HNO3	Groundwater	✔		20					1					
	24050003-011	5/13/2024 14:08	HNO3	Groundwater	✔		24					1					

*Relinquished By	Date/Time	Received By	Date/Time
[signature]	5/14/24	[signature]	5/17/24, 1215

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Cooler Temp: Sampler: Client QC Level: 2

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site.

Project# 24050003

Contact: Shelly Hennessy Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT Billing/PO: 36305 Phone: (618) 344-1004 ext. 36

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228		CPM				PH					
	24050003-012	5/9/2024 11:10	HNO3	Groundwater	✔		20				1					
	24050003-013	5/9/2024 13:14	HNO3	Groundwater	✔		34				1					
	24050003-014	5/9/2024 13:50	HNO3	Groundwater	✔		32				1					
	24050003-015	5/14/2024 10:38	HNO3	Groundwater	✔		34				1					
	24050003-016	5/9/2024 14:28	HNO3	Groundwater	✔		30				1					
	24050003-017	5/9/2024 11:45	HNO3	Groundwater	✔		30				1					
	24050003-018	5/14/2024 12:36	HNO3	Groundwater	✔		24				1					
	24050003-019	5/14/2024 11:03	HNO3	Groundwater	✔		16				1					
	24050003-020	5/14/2024 11:55	HNO3	Groundwater	✔		18				1					
			HNO3	Groundwater												
			HNO3	Groundwater												

*Relinquished By	Date/Time	Received By	Date/Time
Paul Ehlers	5/14/24		

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

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3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24051620 RcptNo: 1

Logged by:	Tegan A. Richards	5/17/2024 12:15:00 PM	Tegan Richards
Completed By:	Tegan A. Richards	5/21/2024 1:52:00 PM	Tegan Richards
Reviewed By:	Jennifer Woolf	5/21/2024 2:16:21 PM	Jennifer Woolf

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☑
   No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	20.0	Good	Not Present			

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24051620 RcptNo: 1

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
2	21.0	Good	Not Present			
3	21.9	Good	Not Present			

June 18, 2024

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: FGDS Landfill **WorkOrder:** 24050002

Dear Eric Staley:

TEKLAB, INC received 11 samples on 5/13/2024 4:10:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

Client: City Water, Light & Power
Client Project: FGDS Landfill

Work Order: 24050002
Report Date: 18-Jun-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	19
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 24050002

Client Project: FGDS Landfill **Report Date:** 18-Jun-24

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power
Work Order: 24050002
Client Project: FGDS Landfill
Report Date: 18-Jun-24

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 24050002
Client Project: FGDS Landfill
Report Date: 18-Jun-24

Cooler Receipt Temp: 13.5 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 & -228 analysis was performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power
Work Order: 24050002
Client Project: FGDS Landfill
Report Date: 18-Jun-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: City Water, Light & Power **Work Order:** 24050002

Client Project: FGDS Landfill **Report Date:** 18-Jun-24

Lab ID: 24050002-006 **Client Sample ID:** G120

Matrix: GROUNDWATER **Collection Date:** 05/09/2024 10:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**502.73**	ft	1	05/09/2024 10:28	R347527
Depth to water	*	-5.00		**14.79**	ft	1	05/09/2024 10:28	R347527
Depth to water from measuring point	*	0		**14.79**	ft	1	05/09/2024 10:28	R347527
Elevation of groundwater surface	*	0		**538.31**	ft	1	05/09/2024 10:28	R347527
Measuring Point Elevation	*	0		**553.10**	ft	1	05/09/2024 10:28	R347527
Measuring Point Height Above Land Surface	*	0		**0**	ft	1	05/09/2024 10:28	R347527
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**7.2**	NTU	1	05/09/2024 10:28	R347527
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**63.4**	°F	1	05/09/2024 10:28	R347527
SW-846 9040B								
pH, Field	*	1.00		**6.65**		1	05/09/2024 10:28	R347527
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1290**	µmhos/cm @25C	1	05/09/2024 10:28	R347527
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1280**	mg/L	2.5	05/15/2024 11:57	R347402
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**560**	mg/L	20	05/15/2024 0:45	R347268
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.17**	mg/L	1	05/17/2024 11:48	R347462
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**39**	mg/L	1	05/15/2024 0:40	R347274
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.606**	mg/L	1	05/15/2024 13:25	222813
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/15/2024 13:25	222813
Boron	NELAP	0.0200		**7.60**	mg/L	1	05/15/2024 13:25	222813
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/15/2024 13:25	222813
Calcium	NELAP	0.100		**260**	mg/L	1	05/15/2024 13:25	222813
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/15/2024 13:25	222813
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/15/2024 13:25	222813
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/15/2024 13:25	222813
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/20/2024 11:16	222813
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/15/2024 13:25	222813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 15:32	222813
Arsenic	NELAP	0.0010		**0.0126**	mg/L	5	05/14/2024 15:32	222813
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 15:32	222813
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/15/2024 16:10	222813
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/24/2024 14:48	222922
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/07/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/07/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050002
Client Project: FGDS Landfill
Report Date: 18-Jun-24
Lab ID: 24050002-009
Client Sample ID: AW-1
Matrix: GROUNDWATER
Collection Date: 05/10/2024 10:37

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**500.79**	ft	1	05/10/2024 10:37	R347527
Depth to water	*	-5.00		**9.88**	ft	1	05/10/2024 10:37	R347527
Depth to water from measuring point	*	0		**12.63**	ft	1	05/10/2024 10:37	R347527
Elevation of groundwater surface	*	0		**542.97**	ft	1	05/10/2024 10:37	R347527
Measuring Point Elevation	*	0		**555.60**	ft	1	05/10/2024 10:37	R347527
Measuring Point Height Above Land Surface	*	0		**2.75**	ft	1	05/10/2024 10:37	R347527
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**26**	NTU	1	05/10/2024 10:37	R347527
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.1**	°F	1	05/10/2024 10:37	R347527
SW-846 9040B								
pH, Field	*	1.00		**6.58**		1	05/10/2024 10:37	R347527
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1060**	µmhos/cm @25C	1	05/10/2024 10:37	R347527
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1220**	mg/L	2.5	05/15/2024 11:58	R347402
SW-846 9036 (TOTAL)								
Sulfate	NELAP	100		**416**	mg/L	10	05/15/2024 1:09	R347268
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**< 0.10**	mg/L	1	05/20/2024 10:53	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**41**	mg/L	1	05/15/2024 1:04	R347274
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**1.57**	mg/L	1	05/15/2024 13:35	222813
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/15/2024 13:35	222813
Boron	NELAP	0.0200		**9.56**	mg/L	1	05/15/2024 13:35	222813
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/15/2024 13:35	222813
Calcium	NELAP	0.100		**208**	mg/L	1	05/15/2024 13:35	222813
Chromium	NELAP	0.0050		**0.0119**	mg/L	1	05/15/2024 13:35	222813
Cobalt	NELAP	0.0050		**0.0059**	mg/L	1	05/17/2024 17:26	222813
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/15/2024 13:35	222813
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/20/2024 12:00	222813
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/15/2024 13:35	222813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 16:30	222813
Arsenic	NELAP	0.0010		**0.156**	mg/L	5	05/14/2024 16:30	222813
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 16:30	222813
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/15/2024 17:00	222813
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/23/2024 13:07	222958
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/07/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/07/2024 0:00	R348779

Receiving Check List

Teklab, Inc. Environmental Laboratory

http://www.teklabinc.com/

Client: City Water, Light & Power

Client Project: FGDS Landfill

Work Order: 24050002

Report Date: 18-Jun-24

Carrier: Daniel Stupar

Received By: WAO

Completed by: Amber Dilallo
On: 08-May-24

Reviewed by: Ellie Hopkins
On: 14-May-24

Pages to follow: Chain of custody 4 Extra pages included 50

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	13.5	
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐	
Chain of custody present?	Yes ☑	No ☐				
Chain of custody signed when relinquished and received?	Yes ☑	No ☐				
Chain of custody agrees with sample labels?	Yes ☑	No ☐				
Samples in proper container/bottle?	Yes ☑	No ☐				
Sample containers intact?	Yes ☑	No ☐				
Sufficient sample volume for indicated test?	Yes ☑	No ☐				
All samples received within holding time?	Yes ☑	No ☐				
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐			
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐				

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

Samples were received on 5/8/24 at 1505 on ice [13.5C - LTG5]. pH strip #96651. - amberdilallo - 5/8/2024 4:32:04 PM

Samples were received on 5/9/2024 at 16:35 on ice [12.1C - LTG#5]. - pschultz - 5/10/2024 9:12:30 AM
pH strip #96651. Additional Nitric Acid (97737) was needed for samples G112 and G113 upon arrival at the laboratory. - pschultz - 5/10/2024 9:12:38 AM

Samples were received on 5/10/2024 at 13:30 on ice [10.7C - LTG#7]. - pschultz - 5/10/2024 2:35:09 PM
pH strip #96651. WO - pschultz - 5/10/2024 2:35:10 PM

Samples were received on 5/13/24 at 1610 on ice [19.3C - LTG7]. pH strip #[96651#]. - amberdilallo - 5/14/2024 8:15:38 AM

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CHAIN OF CUSTODY

Pg 1 of 1 Workorder # 24050002

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power

Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building

City/State/Zip: Springfield IL 62712

Contact: Eric Staley Phone: (217) 757-8610

Email: eric.staley@cwlp.com Fax:

Samples on: [x] ICE [ ] BLUE ICE [ ] NO ICE 13.5 °C 5

Preserved in: [ ] LAB [x] FIELD

FOR LAB USE ONLY

LAB NOTES: PM ✓ 96651 DSS/8

TEKLAB

Courier

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No

Are these samples known to be hazardous? [ ] Yes [✓] No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:

*elevations, pH, conductivity, temperature

**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo

Quarterly monitoring 4Q2023-3Q2025

RW-3 report data from Ash Pond sampling event.

PROJECT NAME/NUMBER

FGDS Landfill

SAMPLE COLLECTOR'S NAME

Tracy Carrol / Danny Crump

RESULTS REQUESTED

[✓] Standard [ ] 1-2 Day (100% Surcharge)

[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24050002-001	R101		Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	G110	5/8/24 1114	Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	R111	5/8/24 1244	Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	G112		Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	G113		Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	G120		Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	G121		Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	G122		Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AW-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AW-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	RW-3		Groundwater	0	0								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
Daniel Crump	5-8-1505	Whitney Owen	5/8/24 1505

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

DSS/8

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CHAIN OF CUSTODY

Pg 1 of 1 Workorder # 24050002

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 12.1 °C
Preserved in: [ ] LAB [ ] FIELD FOR LAB USE ONLY
LAB NOTES: pH in 96651
Added HNO3 (9773) to G112 + G113 PS 5/10

Client Comments: * per COC for 24050001
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring 4Q2023-3Q2025
RW-3 report data from Ash Pond sampling event.

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME
TCarroll

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24050002-001	R101		Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	G110		Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	R111		Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	G112	5/9/24 1232	Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	G113	1348	Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	G120	1028	Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	G121	1119	Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	G122	1153	Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AW-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AW-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	RW-3	5/9 1212*	Groundwater	0	0								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
Daniel Crump	5-9 / 1635	Nick Reed	5/9/24 1635

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 1 of 1 Workorder # 24050002

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

LTG-7

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 10.7 °C
Preserved in: [ ] LAB [X] FIELD FOR LAB USE ONLY
LAB NOTES: pH 4 out of 5 5110 30

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring 4Q2023-3Q2025
RW-3 report data from Ash Pond sampling event.

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME
Justin Colp

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers									INDICATE ANALYSIS REQUESTED												
				UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity								
24050002-001	R101		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
002	G110		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
003	R111		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
004	G112		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
005	G113		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
006	G120		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
007	G121		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
008	G122		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
009	AW-1	5-10-24 / 1037	Groundwater	1	2								✓	✓	✓	✓	✓	✓								
010	AW-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
011	RW-3		Groundwater	0	0								✓	✓	✓	✓	✓	✓								

Relinquished By	Date/Time	Received By	Date/Time
J Colp	5-10-24 / 1330	Whitney Clapp	5/10/24 1330

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 1 of 1 Workorder # 24050002

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 19.3 °C LTC7
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES: pH/9&151 PS 5/14

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring 4Q2023-3Q2025
RW-3 report data from Ash Pond sampling event.

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME
Justin Culp

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24050002-001	R101	5-13-24 / 1220	Groundwater	1	2								✔	✔	✔	✔	✔	✔
002	G110		Groundwater	1	2								✔	✔	✔	✔	✔	✔
003	R111		Groundwater	1	2								✔	✔	✔	✔	✔	✔
004	G112		Groundwater	1	2								✔	✔	✔	✔	✔	✔
005	G113		Groundwater	1	2								✔	✔	✔	✔	✔	✔
006	G120		Groundwater	1	2								✔	✔	✔	✔	✔	✔
007	G121		Groundwater	1	2								✔	✔	✔	✔	✔	✔
008	G122		Groundwater	1	2								✔	✔	✔	✔	✔	✔
009	AW-1		Groundwater	1	2								✔	✔	✔	✔	✔	✔
010	AW-2	5-13-24 / 1052	Groundwater	1	2								✔	✔	✔	✔	✔	✔
011	RW-3		Groundwater	0	0								✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
Daniel Crump	5-8/ 1505	[illegible]	5/13/24 1610

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050002
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Summary
CWLP- FGDS LF- 2Q 2024

			Weather				Well Condition				
WO Sample	**Well ID**	**Program/ Sample Type**	**Temp (°F)**	**Precipitation**	**Wind Direction**	**Sky**	**Well Pad**	**Casing**	**Protective Cover**	**Reference Mark/ ID**	**Well Locked**
001	R101	Groundwater Sample	72.0	None	S	Cloudy	Good	Good	Good	Yes	No
002	G110	Groundwater Sample	75.0	Light	S	Cloudy	Good	Good	Good	Yes	No
003	R111	Groundwater Sample	75.0	Light	S	Cloudy	Good	Good	Good	Yes	No
004	G112	Groundwater Sample	71.0	None	W	Cloudy	Good	Good	Good	Yes	No
005	G113	Groundwater Sample	72.0	None	W	Cloudy	Good	Good	Good	Yes	No
006	G120	Groundwater Sample	68.0	None	W	Cloudy	Good	Good	Good	Yes	No
007	G121	Groundwater Sample	69.0	None	W	Partly cloudy	Good	Good	Good	Yes	No
008	G122	Groundwater Sample	71.0	None	W	Cloudy	Good	Good	Good	Yes	No
009	AW-1	Groundwater Sample	59.0	None	NW	Partly cloudy	Good	Good	Good	Yes	No
010	AW-2	Groundwater Sample	71.0	None	S	Cloudy	Good	Good	Good	Yes	No
011	RW-3	Groundwater Sample	73.0	None	S	Partly cloudy	Good	Good	Good	Yes	No

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050002
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Summary
CWLP- FGDS LF- 2Q 2024

		GW Level Measurement				Purge Activities							
WO Sample	**Well ID**	**Sampler Initials**	**Date/Time**	**DTW (ft)**	**DTB (ft)**	**Sampler Initials**	**Purge Date**	**Purge Start Time**	**Purge End Time**	**Purging/Sampling Device**	**Well Diameter (in)**	**Actual Volume Purged (L)**	**Purge Rate (mL/min)**
001	R101	JC	5/13/24 11:56	5.95	35.27	JC	5/13/2024	11:58	12:20	Submersible Pump	2"	7.0	318.2
002	G110	DC	5/8/24 10:22	23.19	57.15	DC	5/8/2024	10:27	11:14	Peristaltic Pump	2"	6.0	127.7
003	R111	DC	5/8/24 12:04	24.22	55.75	DC	5/8/2024	12:09	12:44	Peristaltic Pump	2"	7.0	200.0
004	G112	JC	5/9/24 12:06	26.99	58.81	JC	5/9/2024	12:19	12:32	Submersible Pump	2"	5.0	384.6
005	G113	JC	5/9/24 13:31	3.85	12.85	JC	5/9/2024	13:34	13:48	Submersible Pump	2"	3.0	214.3
006	G120	JC	5/9/24 9:58	14.79	50.37	JC	5/9/2024	10:00	10:28	Submersible Pump	2"	11.0	392.9
007	G121	JC	5/9/24 11:03	26.76	58.56	JC	5/9/2024	11:03	11:19	Submersible Pump	2"	6.0	375.0
008	G122	JC	5/9/24 11:29	27.67	49.29	JC	5/9/2024	11:39	11:53	Submersible Pump	2"	6.0	**428.6**
009	AW-1	JC	5/10/24 9:39	12.63	54.81	JC	5/10/2024	09:44	10:37	Submersible Pump	2"	17.0	320.8
010	AW-2	JC	5/13/24 10:11	3.29	32.64	JC	5/13/2024	10:12	10:52	Submersible Pump	2"	14.0	350.0
011	RW-3	TAC	5/9/24 11:19	7.87	44.01	TAC	5/9/2024	11:23	12:12	Bladder Pump	2"	9.0	183.7

Site Samping Event: CWLP- 2Q24
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Groundwater Sampling Summary
CWLP- FGDS LF- 2Q 2024

		Sampling Activities and Observations									
WO Sample	**Well ID**	**Sampler Initials**	**Date**	**Time**	**Sampling Method**	**Field Filtered**	**Appearance**	**Odor**	**Color**	**Post-Sample DTW (ft)**	**Drawdown (ft)**
001	R101	JC	05/13/24	12:20	Low Flow	Yes	Clear	None	none	6.23	0.28
002	G110	TAC	05/08/24	11:14	Low Flow	Yes	Clear	None	None	23.38	0.19
003	R111	TAC	05/08/24	12:44	Low Flow	Yes	Clear	None	None	24.33	0.11
004	G112	JC	05/09/24	12:32	Low Flow	Yes	Clear	None	none	27.09	0.10
005	G113	JC	05/09/24	13:48	Low Flow	Yes	Clear	Strong	none	3.97	0.12
006	G120	JC	05/09/24	10:28	Low Flow	Yes	Clear	Slight	none	15.36	**0.57**
007	G121	JC	05/09/24	11:19	Low Flow	Yes	Clear	None	none	27.15	0.39
008	G122	JC	05/09/24	11:53	Low Flow	Yes	Clear	None	none	27.97	0.30
009	AW-1	JC	05/10/24	10:37	Low Flow	Yes	Clear	None	none	12.98	0.35
010	AW-2	JC	05/13/24	10:52	Low Flow	Yes	Slightly cloudy	Slight	lt brown	4.67	**1.38**
011	RW-3	TAC	05/09/24	12:12	Low Flow	Yes	Clear	None	None	14.87	**7.00**

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Groundwater Sampling Summary
CWLP- FGDS LF- 2Q 2024

WO Sample	Well ID	COMMENTS
001	R101	
002	G110	
003	R111	
004	G112	
005	G113	
006	G120	Flush Mount well
007	G121	
008	G122	
009	AW-1	
010	AW-2	
011	RW-3	

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050002
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Stabilized Field Parameters Summary
CWLP- FGDS LF- 2Q 2024

Well ID	Date	Time	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	LIMS ID
R101	5/13/2024	12:20	13.8	56.9	6.92	804.8	2.63	16.14	77.6	5.95	24050001-001A
G110	5/8/2024	11:14	15.5	60.0	6.54	783.4	1.42	4.97	-62.3	23.19	24050001-002A
R111	5/8/2024	12:44	14.5	58.0	6.01	120.4	3.91	2.71	66.5	24.22	24050001-003A
G112	5/9/2024	12:32	14.6	58.3	6.97	1,066.2	0.17	4.06	-136.2	26.99	24050001-004A
G113	5/9/2024	13:48	15.5	59.8	6.27	1,357.4	0.17	5.05	-273.2	3.85	24050001-005A
G120	5/9/2024	10:28	17.5	63.4	6.65	1,294.2	0.11	7.19	-147.1	14.79	24050001-006A
G121	5/9/2024	11:19	15.0	59.0	6.76	1,041.5	0.15	8.16	-144.6	26.76	24050001-007A
G122	5/9/2024	11:53	14.6	58.2	6.64	1,225.7	0.28	2.93	-119.2	27.67	24050001-008A
AW-1	5/10/2024	10:37	14.5	58.1	6.58	1,063.8	0.14	25.85	-122.3	12.63	24050001-009A
AW-2	5/13/2024	10:52	15.0	59.0	6.83	783.6	0.07	8.08	-160.7	3.29	24050001-010A
RW-3	5/9/2024	12:12	15.1	59.1	6.70	644.4	0.82	23.4	-105.9	7.87	24050001-011A

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050002
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- FGDS LF- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
R101	5/13/2024	12:11	5.95	12.9	55.3	6.89	804.9	2.67	20.15	78.8
R101	5/13/2024	12:14	5.95	13.5	56.3	6.92	804.6	2.65	18.08	78.3
R101	5/13/2024	12:17	5.95	13.4	56.2	6.92	805.4	2.65	16.91	79.0
R101	5/13/2024	12:20	5.95	13.8	56.9	6.92	804.8	2.63	16.14	77.6

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050002
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- FGDS LF- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G110	5/8/2024	10:50	23.19	15.6	60.0	6.91	779.1	2.22	40.97	-30.7
G110	5/8/2024	10:53	23.19	15.5	59.8	6.86	778.3	2.09	34.58	-33.5
G110	5/8/2024	10:56	23.19	15.4	59.8	6.82	776.5	1.99	41.42	-36.6
G110	5/8/2024	10:59	23.19	15.4	59.8	6.78	776.9	1.93	14.75	-41.4
G110	5/8/2024	11:02	23.19	15.4	59.7	6.75	776.2	1.84	13.25	-45.4
G110	5/8/2024	11:05	23.19	15.4	59.7	6.70	778.3	1.70	31.78	-49.4
G110	5/8/2024	11:08	23.19	15.6	60.0	6.64	778.7	1.56	7.23	-54.2
G110	5/8/2024	11:11	23.19	15.6	60.0	6.58	781.5	1.51	5.37	-58.9
G110	5/8/2024	11:14	23.19	15.5	60.0	6.54	783.4	1.42	4.97	-62.3

Site Samping Event: CWLP- 2Q24
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Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- FGDS LF- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
R111	5/8/2024	12:20	24.22	14.4	58.0	6.20	120.4	4.31	3.95	42.0
R111	5/8/2024	12:23	24.22	14.5	58.0	6.15	120.7	4.19	3.93	47.4
R111	5/8/2024	12:26	24.22	14.5	58.1	6.11	120.6	4.13	3.81	51.9
R111	5/8/2024	12:29	24.22	14.4	58.0	6.08	120.4	4.08	3.63	55.3
R111	5/8/2024	12:32	24.22	14.5	58.1	6.06	120.3	4.01	3.37	58.2
R111	5/8/2024	12:35	24.22	14.6	58.2	6.05	119.9	3.99	3.11	60.7
R111	5/8/2024	12:38	24.22	14.5	58.1	6.04	120.4	3.96	2.78	63.0
R111	5/8/2024	12:41	24.22	14.6	58.2	6.02	120.3	3.95	2.71	64.9
R111	5/8/2024	12:44	24.22	14.5	58.0	6.01	120.4	3.91	2.71	66.5

Site Samping Event: CWLP- 2Q24
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Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- FGDS LF- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G112	5/9/2024	12:23	26.99	14.5	58.0	6.96	1,077.3	0.62	7.45	-126.9
G112	5/9/2024	12:26	26.99	14.5	58.1	6.96	1,076.6	0.31	5.25	-131.2
G112	5/9/2024	12:29	26.99	14.6	58.3	6.97	1,075.7	0.23	4.54	-134.7
G112	5/9/2024	12:32	26.99	14.6	58.3	6.97	1,066.2	0.17	4.06	-136.2

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Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- FGDS LF- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G113	5/9/2024	13:36	3.85	15.0	58.9	6.28	1,363.3	1.10	18.25	-149.6
G113	5/9/2024	13:39	3.85	15.3	59.5	6.29	1,364.3	0.45	16.44	-208.0
G113	5/9/2024	13:42	3.85	15.3	59.5	6.29	1,356.4	0.27	12.41	-248.5
G113	5/9/2024	13:45	3.85	15.6	60.0	6.28	1,354.6	0.23	7.26	-259.5
G113	5/9/2024	13:48	3.85	15.5	59.8	6.27	1,357.4	0.17	5.05	-273.2

Site Samping Event: CWLP- 2Q24
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Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- FGDS LF- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G120	5/9/2024	10:07	14.79	16.8	62.3	6.64	1,292.0	0.54	12.12	-136.6
G120	5/9/2024	10:10	14.79	16.9	62.4	6.64	1,291.7	0.36	11.94	-139.8
G120	5/9/2024	10:13	14.79	17.7	63.9	6.65	1,294.6	0.28	14.54	-142.5
G120	5/9/2024	10:16	14.79	18.1	64.5	6.65	1,297.5	0.23	12.83	-144.6
G120	5/9/2024	10:19	14.79	17.0	62.5	6.65	1,294.9	0.17	21.79	-144.6
G120	5/9/2024	10:22	14.79	16.7	62.0	6.65	1,295.2	0.14	11.52	-145.7
G120	5/9/2024	10:25	14.79	17.1	62.7	6.65	1,292.6	0.12	8.58	-146.2
G120	5/9/2024	10:28	14.79	17.5	63.4	6.65	1,294.2	0.11	7.19	-147.1

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Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- FGDS LF- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AW-1	5/10/2024	10:07	12.63	14.2	57.6	6.57	1,059.0	0.18	122.74	-124.4
AW-1	5/10/2024	10:10	12.63	14.3	57.8	6.57	1,057.1	0.20	80.73	-122.6
AW-1	5/10/2024	10:13	12.63	14.5	58.1	6.58	1,057.4	0.21	51.13	-121.0
AW-1	5/10/2024	10:16	12.63	14.3	57.7	6.58	1,058.8	0.21	51.28	-119.8
AW-1	5/10/2024	10:19	12.63	14.4	58.0	6.58	1,059.7	0.20	40.08	-119.8
AW-1	5/10/2024	10:22	12.63	14.4	58.0	6.58	1,061.2	0.18	28.44	-120.3
AW-1	5/10/2024	10:25	12.63	14.5	58.0	6.58	1,061.5	0.17	26.24	-121.0
AW-1	5/10/2024	10:28	12.63	14.4	57.9	6.58	1,062.1	0.16	38.55	-121.3
AW-1	5/10/2024	10:31	12.63	14.4	58.0	6.58	1,063.9	0.15	26.09	-121.7
AW-1	5/10/2024	10:34	12.63	14.5	58.1	6.58	1,063.4	0.14	25.72	-122.1
AW-1	5/10/2024	10:37	12.63	14.5	58.1	6.58	1,063.8	0.14	25.85	-122.3

Site Samping Event: CWLP- 2Q24
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Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- FGDS LF- 2Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 26599 Technician(s): B. Gillihan Date: 5/9/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	5/9/24 9:25
7.0 Buffer	WC240307F	7.00	5/9/24 9:37
10.0 Buffer	WC231027D	10.01	5/9/24 9:40
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	5/9/24 9:42

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.5	5/9/24 9:51
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1	LCS	5/9/24 18:30	18.96	7.00	1,412	1.5		
CCV-1	CCV	5/9/24 18:29	20.62	7.02	1,413	1.5		

Comments:

Field Meter ID: Pine 26599 Technician(s): B. Gillihan Date: 5/10/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.01	5/10/24 8:54
7.0 Buffer	WC240307F	7.02	5/10/24 16:36
10.0 Buffer	WC231027D	10.00	5/10/24 16:36
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1413	5/10/24 16:38

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.5	5/10/24 16:38
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2	LCS	5/10/24 16:38	18.65	7.01	1,413	1.5		
CCV-2	CCV	5/10/24 16:39	20.64	7.02	1,415	1.4		

Comments:

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050002
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- FGDS LF- 2Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 26599 Technician(s): B. Gillihan Date: 5/13/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	5/13/24 9:29
7.0 Buffer	WC240307F	7.03	5/13/24 9:36
10.0 Buffer	WC231027D	10.01	5/13/24 9:42
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1415	5/13/24 9:51

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.6	5/13/24 9:58
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3	LCS	5/13/24 10:05	19.72	7.02	1,415	1.6		
CCV-3	CCV	5/13/24 11:05	20.01	7.01	1,415	1.5		

Comments:

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050002
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- FGDS LF- 2Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 45986 Technician(s): Daniel Crump/Tracy Carroll Date: 5/8/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	5/8/24 10:09
7.0 Buffer	WC240307F	7.01	5/8/24 10:07
10.0 Buffer	WC230619B	10.00	5/8/24 10:11
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	5/8/24 10:14

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1	LCS	5/8/24 10:16	22.9	7.09	1,413			
CCV-1	CCV	5/8/24 13:21	21	7.02	1,439			

Comments:

Field Meter ID: Pine 45986 Technician(s): Tracy Carroll Date: 5/9/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	5/9/24 11:02
7.0 Buffer	WC240307F	7.02	5/9/24 11:01
10.0 Buffer	WC230619B	10.00	5/9/24 11:03
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	5/9/24 11:11

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2	LCS	5/9/24 11:16	24.2	7.06	1,413			
CCV-2	CCV	5/9/24 15:03	25.2	7.08	1,488			

Comments:

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050002
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- FGDS LF- 2Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 45986 Technician(s): Tracy Carroll Date: 5/10/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	5/10/24 9:28
7.0 Buffer	WC240307F	7.04	5/10/24 9:25
10.0 Buffer	WC230619B	10.00	5/10/24 9:31
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	5/10/24 9:32

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3	LCS	5/10/24 9:36	14.5	7.05	1,414	1.95		
CCV-3	CCV	5/10/24 10:55	15.2	7.04	1,488			

Comments:

Field Meter ID: Pine 45986 Technician(s): Tracy Carroll/Payton Yoch Date: 5/13/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	5/13/24 10:00
7.0 Buffer	WC240307F	7.01	5/13/24 9:57
10.0 Buffer	WC230619B	10.00	5/13/24 10:04
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	5/13/24 10:09

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-4	LCS	5/13/24 10:14	23.7	6.99	1,411			
CCV-4	CCV	5/13/24 14:33	28	6.90	1,435			

Comments:

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050002
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- FGDS LF- 2Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 45986 Technician(s): Tracy Carroll/Payton Yoch Date: 5/14/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	5/14/24 10:22
7.0 Buffer	WC240307F	7.01	5/14/24 10:22
10.0 Buffer	WC230619B	10.00	5/14/24 10:23
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	5/14/24 10:23

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-5	LCS	5/14/24 10:25	23.7	6.99	1,412			
CCV-5	CCV	5/14/24 13:30	22.9	7.02	1,455			

Comments:

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050002
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- FGDS LF- 2Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 218083 Technician(s): justin colp Date: 5/9/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230830b	3.99	5/9/24 9:29
7.0 Buffer	wc240307f	7.01	5/9/24 9:23
10.0 Buffer	wc231027d	10.00	5/9/24 9:37
LCS/CCV (7.0 Buffer)			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1409	5/9/24 9:41

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.93	5/9/24 9:42
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1	LCS	5/9/24 9:44	20.5	7.01	1,409	0.93		
CCV-M-1	CCV	5/9/24 12:11	21.7	7.03	1,421	0.96		
CCV-1	CCV	5/9/24 14:35	22.8	7.03	1,424	1.04		

Comments:

Field Meter ID: Pine 218083 Technician(s): justin colp Date: 5/10/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230830b	4.00	5/10/24 9:32
7.0 Buffer	wc240307f	7.02	5/10/24 9:30
10.0 Buffer	wc231027d	9.98	5/10/24 9:35
LCS/CCV (7.0 Buffer)			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1410	5/10/24 9:40

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.87	5/10/24 9:40
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2	LCS	5/10/24 9:43	18.8	7.02	1,410	0.87		
CCV-2	CCV	5/10/24 10:58	19.7	7.02	1,416	0.89		

Comments:

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050002
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- FGDS LF- 2Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 218083 Technician(s): justin colp Date: 5/13/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230830b	4.01	5/13/24 9:49
7.0 Buffer	wc240307f	7.01	5/13/24 9:43
10.0 Buffer	wc231027d	9.98	5/13/24 9:58
LCS/CCV (7.0 Buffer)			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	5/13/24 9:58

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.86	5/13/24 9:58
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3	LCS	5/13/24 10:00	21.7	7.01	1,412	0.86		
CCV-3	CCV	5/13/24 14:28	22.1	7.03	1,420	0.92		

Comments:

Field Meter ID: Pine 218083 Technician(s): justin colp Date: 5/14/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230830b	3.98	5/14/24 9:25
7.0 Buffer	wc240307f	7.00	5/14/24 9:21
10.0 Buffer	wc231027d	9.99	5/14/24 9:28
LCS/CCV (7.0 Buffer)			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1410	5/14/24 9:35

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.96	5/14/24 9:35
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-4	LCS	5/14/24 9:37	20.2	7.00	1,410	0.96		
CCV-4	CCV	5/14/24 12:17	21	7.01	1,418	0.99		

Comments:

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

June 12, 2024

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 24050002

Order No.: 24051621

Dear Shelly Hennessy:

Summit Environmental Technologies, Inc. received 11 sample(s) on 5/17/2024 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Website: http://www.settek.com

Case Narrative

WO#: **24051621**
Date: **6/12/2024**

CLIENT: TEKLAB Inc,
Project: 24050002

WorkOrder Narrative:
24051621: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Sequence QC Notes:
LCS/LCSD-75740 Radium-226_DW(903.0): LCS/LCSD exhibit a high RPD, individually each LCS/LCSD meet required criteria.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, In
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-44
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **24051621**
Date: **6/12/2024**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

Summit Environmental Technologies, Inc.
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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Workorder Sample Summary

WO#: **24051621**

12-Jun-24

CLIENT: TEKLAB Inc,
Project: 24050002

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24051621-001	24050002-001		5/13/2024 12:20:00 PM	5/17/2024 12:15:00 PM	Non-Potable Water
24051621-002	24050002-002		5/8/2024 11:14:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051621-003	24050002-003		5/8/2024 12:44:00 PM	5/17/2024 12:15:00 PM	Non-Potable Water
24051621-004	24050002-004		5/9/2024 12:32:00 PM	5/17/2024 12:15:00 PM	Non-Potable Water
24051621-005	24050002-005		5/9/2024 1:48:00 PM	5/17/2024 12:15:00 PM	Non-Potable Water
24051621-006	24050002-006		5/9/2024 10:28:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051621-007	24050002-007		5/9/2024 11:19:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051621-008	24050002-008		5/9/2024 11:53:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051621-009	24050002-009		5/10/2024 10:37:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051621-010	24050002-010		5/13/2024 10:52:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051621-011	24050002-011		5/9/2024 12:12:00 PM	5/17/2024 12:15:00 PM	Non-Potable Water

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

DATES REPORT

WO#: **24051621**

12-Jun-24

Client: TEKLAB Inc,

Project: 24050002

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24051621-001A	24050002-001	5/13/2024 12:20:00 PM	Non-Potable Water	Radium-226 (EPA 903.0)		5/30/2024 1:15:00 PM	6/10/2024 12:05:07 PM
				Radium-228 (EPA 904.0)		5/30/2024 1:15:00 PM	6/7/2024 12:56:15 PM
24051621-002A	24050002-002	5/8/2024 11:14:00 AM		Radium-226 (EPA 903.0)		5/30/2024 1:15:00 PM	6/10/2024 12:05:07 PM
				Radium-228 (EPA 904.0)		5/30/2024 1:15:00 PM	6/7/2024 12:56:15 PM
24051621-003A	24050002-003	5/8/2024 12:44:00 PM		Radium-226 (EPA 903.0)		5/30/2024 1:15:00 PM	6/10/2024 12:05:07 PM
				Radium-228 (EPA 904.0)		5/30/2024 1:15:00 PM	6/7/2024 12:56:15 PM
24051621-004A	24050002-004	5/9/2024 12:32:00 PM		Radium-226 (EPA 903.0)		5/30/2024 1:15:00 PM	6/10/2024 12:05:07 PM
				Radium-228 (EPA 904.0)		5/30/2024 1:15:00 PM	6/7/2024 12:56:15 PM
24051621-005A	24050002-005	5/9/2024 1:48:00 PM		Radium-226 (EPA 903.0)		5/30/2024 1:15:00 PM	6/10/2024 12:05:07 PM
				Radium-228 (EPA 904.0)		5/30/2024 1:15:00 PM	6/7/2024 12:56:15 PM
24051621-006A	24050002-006	5/9/2024 10:28:00 AM		Radium-226 (EPA 903.0)		5/30/2024 1:15:00 PM	6/10/2024 12:05:07 PM
				Radium-228 (EPA 904.0)		5/30/2024 1:15:00 PM	6/7/2024 12:56:15 PM
24051621-007A	24050002-007	5/9/2024 11:19:00 AM		Radium-226 (EPA 903.0)		5/30/2024 1:15:00 PM	6/10/2024 12:05:07 PM
				Radium-228 (EPA 904.0)		5/30/2024 1:15:00 PM	6/7/2024 12:56:15 PM
24051621-008A	24050002-008	5/9/2024 11:53:00 AM		Radium-226 (EPA 903.0)		5/30/2024 1:15:00 PM	6/10/2024 12:05:07 PM
				Radium-228 (EPA 904.0)		5/30/2024 1:15:00 PM	6/7/2024 12:56:15 PM
24051621-009A	24050002-009	5/10/2024 10:37:00 AM		Radium-226 (EPA 903.0)		5/30/2024 1:15:00 PM	6/10/2024 12:05:07 PM
				Radium-228 (EPA 904.0)		5/30/2024 1:15:00 PM	6/7/2024 12:56:15 PM
24051621-010A	24050002-010	5/13/2024 10:52:00 AM		Radium-226 (EPA 903.0)		5/30/2024 1:15:00 PM	6/10/2024 12:05:07 PM
				Radium-228 (EPA 904.0)		5/30/2024 1:15:00 PM	6/7/2024 12:56:15 PM
24051621-011A	24050002-011	5/9/2024 12:12:00 PM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM

Original

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

Summit Environmental Technologies, Inc.
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Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **24051621**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,

Collection Date: 5/9/2024 10:28:00 AM

Project: 24050002

Lab ID: 24051621-006

Matrix: NON-POTABLE WATER

Client Sample ID: 24050002-006

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	1.03	1.00		pCi/L	± 0.170	1	6/10/2024 12:05:07 PM
Yield	1.00					1	6/10/2024 12:05:07 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	ND	1.00		pCi/L	± 0.380	1	6/7/2024 12:56:15 PM
Yield	0.940					1	6/7/2024 12:56:15 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: **24051621**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,

Collection Date: 5/10/2024 10:37:00 AM

Project: 24050002

Lab ID: 24051621-009

Matrix: NON-POTABLE WATER

Client Sample ID: 24050002-009

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	1.25	1.00		pCi/L	± 0.200	1	6/10/2024 12:05:07 PM
Yield	0.960					1	6/10/2024 12:05:07 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	ND	1.00		pCi/L	± 0.460	1	6/7/2024 12:56:15 PM
Yield	0.830					1	6/7/2024 12:56:15 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24051621**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050002 **BatchID:** **75651**

Sample ID: **MB-75651**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **5/28/2024**	RunNo: **186770**
Client ID: **PBW**	Batch ID: **75651**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/3/2024**	SeqNo: **5060869**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCSD-75651**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **5/28/2024**	RunNo: **186770**
Client ID: **LCSS02**	Batch ID: **75651**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/3/2024**	SeqNo: **5060871**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.50	1.00	5.000	0	90.0	50	130	3.520	24.4	20	R
Yield	1.00			0	0			1.000	0		

Sample ID: **24051612-001ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **5/28/2024**	RunNo: **186770**
Client ID: **BatchQC**	Batch ID: **75651**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/3/2024**	SeqNo: **5060876**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	30	R
Yield	0.970			0	0			1.000	3.05		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **24051621**

12-Jun-24

Client: TEKLAB Inc,

Project: 24050002 **BatchID:** **75651**

Sample ID: **24051613-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/28/2024** RunNo: **186770**

Client ID: **BatchQC** Batch ID: **75651** TestNo: **E904.0** **E903-904** Analysis Date: **6/3/2024** SeqNo: **5060878**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	30	R
Yield	0.950			0	0			0.9500	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **24051621**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050002 **BatchID:** **75651**

Sample ID: **24051612-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/28/2024** RunNo: **186773**
Client ID: **BatchQC** Batch ID: **75651** TestNo: **E903.0** **E903-904** Analysis Date: **6/4/2024** SeqNo: **5061011**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	0.960							1.000	4.08	0	

Sample ID: **24051613-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/28/2024** RunNo: **186773**
Client ID: **BatchQC** Batch ID: **75651** TestNo: **E903.0** **E903-904** Analysis Date: **6/4/2024** SeqNo: **5061013**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	0.940							0.9500	1.06	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **24051621**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050002 **BatchID:** **75651**

Sample ID: **MB-75651** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/28/2024** RunNo: **186773**
Client ID: **PBW** Batch ID: **75651** TestNo: **E903.0** **E903-904** Analysis Date: **6/4/2024** SeqNo: **5061004**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	ND										

Sample ID: **LCS-75651** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/28/2024** RunNo: **186773**
Client ID: **LCSW** Batch ID: **75651** TestNo: **E903.0** **E903-904** Analysis Date: **6/4/2024** SeqNo: **5061005**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.94	1.00	5.000	0	98.8	70	130				

Sample ID: **LCSD-75651** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/28/2024** RunNo: **186773**
Client ID: **LCSS02** Batch ID: **75651** TestNo: **E903.0** **E903-904** Analysis Date: **6/4/2024** SeqNo: **5061006**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.48	1.00	5.000	0	89.6	70	130	4.940	9.77	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **24051621**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050002 **BatchID:** **75740**

Sample ID: **MB-75740**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **5/30/2024**	RunNo: **187287**
Client ID: **PBW**	Batch ID: **75740**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/7/2024**	SeqNo: **5075299**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-75740**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **5/30/2024**	RunNo: **187287**
Client ID: **LCSW**	Batch ID: **75740**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/7/2024**	SeqNo: **5075300**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.94	1.00	5.000	0	78.8	50	130				
Yield	0.890			0	0						

Sample ID: **LCSD-75740**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **5/30/2024**	RunNo: **187287**
Client ID: **LCSS02**	Batch ID: **75740**	TestNo: **E904.0**	**E903-904**	Analysis Date: **6/7/2024**	SeqNo: **5075301**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.07	1.00	5.000	0	81.4	50	130	3.940	3.25	20	
Yield	0.860			0	0			0.8900	3.43		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **24051621**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050002 **BatchID:** **75740**

Sample ID: **24050773-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/30/2024** RunNo: **187287**
Client ID: **BatchQC** Batch ID: **75740** TestNo: **E904.0** **E903-904** Analysis Date: **6/7/2024** SeqNo: **5075306**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	0.910			0	0			0.8900	2.22		

Sample ID: **24052198-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/30/2024** RunNo: **187287**
Client ID: **BatchQC** Batch ID: **75740** TestNo: **E904.0** **E903-904** Analysis Date: **6/7/2024** SeqNo: **5075324**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	0.930			0	0			0.9600	3.17		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **24051621**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050002 **BatchID:** **75740**

Sample ID: **MB-75740**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/30/2024**	RunNo: **187303**
Client ID: **PBW**	Batch ID: **75740**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/10/2024**	SeqNo: **5075489**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-75740**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/30/2024**	RunNo: **187303**
Client ID: **LCSW**	Batch ID: **75740**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/10/2024**	SeqNo: **5075490**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.05	1.00	5.000	0	81.0	70	130				QLR

Sample ID: **LCSD-75740**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/30/2024**	RunNo: **187303**
Client ID: **LCSS02**	Batch ID: **75740**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/10/2024**	SeqNo: **5075491**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.95	1.00	5.000	0	99.0	70	130	4.050	20.0	20	R

Sample ID: **24050773-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/30/2024**	RunNo: **187303**
Client ID: **BatchQC**	Batch ID: **75740**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/10/2024**	SeqNo: **5075496**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **24051621**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050002 **BatchID:** **75740**

Sample ID: **24050773-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/30/2024** RunNo: **187303**
Client ID: **BatchQC** Batch ID: **75740** TestNo: **E903.0** **E903-904** Analysis Date: **6/10/2024** SeqNo: **5075496**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							0.9400	6.19	0	

Sample ID: **24052198-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/30/2024** RunNo: **187303**
Client ID: **BatchQC** Batch ID: **75740** TestNo: **E903.0** **E903-904** Analysis Date: **6/10/2024** SeqNo: **5075514**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	0.960							1.000	4.08	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Pg 1 of 1

24051621

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Cooler Temp: 20.3-21.3 Sampler: Client QC Level: 2

20.3+0.0=
21.3+0.0= Fedex, Cooler

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Project# 24050002

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site.

Contact: Shelly Hennessy Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT Billing/PO: 36304 Phone: (618) 344-1004 ext. 36

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228												
						Comm				DH							
	24050002-001	5/13/2024 12:20	HNO3	Groundwater	✔	28				1							
	24050002-002	5/8/2024 11:14	HNO3	Groundwater	✔	18				1							
	24050002-003	5/8/2024 12:44	HNO3	Groundwater	✔	32				1							
	24050002-004	5/9/2024 12:32	HNO3	Groundwater	✔	18				1							
	24050002-005	5/9/2024 13:48	HNO3	Groundwater	✔	38				1							
	24050002-006	5/9/2024 10:28	HNO3	Groundwater	✔	28				1							
	24050002-007	5/9/2024 11:19	HNO3	Groundwater	✔	38				1							
	24050002-008	5/9/2024 11:53	HNO3	Groundwater	✔	12				1							
	24050002-009	5/10/2024 10:37	HNO3	Groundwater	✔	22				1							
	24050002-010	5/13/2024 10:52	HNO3	Groundwater	✔	34				1							
	24050002-011	5/9/2024 12:12	HNO3	Groundwater	✔					Did not receive -011							

*Relinquished By	Date/Time	Received By	Date/Time
Karl Reddy	5/14/24		5/17/24. 1215

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Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24051621 RcptNo: 1

Logged by:	Tegan A. Richards	5/17/2024 12:15:00 PM	Tegan Richards
Completed By:	Tegan A. Richards	5/21/2024 2:09:09 PM	Tegan Richards
Reviewed By:	Jennifer Woolf	5/21/2024 2:33:59 PM	Jennifer Woolf

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☐	No ☑	Not Present ☐
2.	How was the sample delivered?	FedEx		

Log In

3.	Coolers are present?	Yes ☑	No ☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
	Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
	No. Seal Date: Signed By:			
5.	Was an attempt made to cool the samples?	Yes ☐	No ☑	NA ☐
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☑	NA ☐
		Not required		
7.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
8.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
9.	Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
10.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
11.	Is the headspace in the VOA vials less than 1/4 inch or 6 mm?	Yes ☐	No ☐	No VOA Vials ☑
12.	Were any sample containers received broken?	Yes ☐	No ☑	
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
14.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
15.	Is it clear what analyses were requested?	Yes ☑	No ☐	
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

Special Handling (if applicable)

17.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

same as Summit ID 240516201-001 per email
Did not receive -011

Cooler Information

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24051621 RcptNo: 1

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	20.3	Good	Not Present			
2	21.3	Good	Not Present			

August 2024 Laboratory Analytical Report

September 18, 2024

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 24080242

Dear Eric Staley:

TEKLAB, INC received 20 samples on 8/13/2024 2:27:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24080242
Report Date: 18-Sep-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	36
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 24080242

Client Project: Ash Pond Monitoring Wells **Report Date:** 18-Sep-24

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Definitions

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24080242
Report Date: 18-Sep-24

Cooler Receipt Temp: 12.1 °C

An employee of Teklab, Inc. collected the sample(s).

AP-3 well is damaged, will be collected at a later date.

Radium-226 & -228 analysis was performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power

Work Order: 24080242

Client Project: Ash Pond Monitoring Wells

Report Date: 18-Sep-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	12/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: City Water, Light & Power **Work Order:** 24080242

Client Project: Ash Pond Monitoring Wells **Report Date:** 18-Sep-24

Lab ID: 24080242-001 **Client Sample ID:** RW-3

Matrix: GROUNDWATER **Collection Date:** 08/12/2024 10:18

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	08/12/2024 10:18	R352005
Depth to water	*	-5.00		**8.61**	ft	1	08/12/2024 10:18	R352005
Depth to water from measuring point	*	0		**11.31**	ft	1	08/12/2024 10:18	R352005
Elevation of groundwater surface	*	0		**528.19**	ft	1	08/12/2024 10:18	R352005
Measuring Point Elevation	*	0		**539.50**	ft	1	08/12/2024 10:18	R352005
Measuring Point Height Above Land Surface	*	0		**2.70**	ft	1	08/12/2024 10:18	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**39**	NTU	1	08/12/2024 10:18	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.3**	°F	1	08/12/2024 10:18	R352005
SW-846 9040B								
pH, Field	*	1.00		**7.23**		1	08/12/2024 10:18	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**698**	umhos/cm @25C	1	08/12/2024 10:18	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**344**	mg/L	1	08/16/2024 9:41	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10	S	**14**	mg/L	1	08/20/2024 11:28	R352032
Matrix spike did not recover within control limits. Results verify by dilution.								
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.43**	mg/L	1	08/19/2024 9:31	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**29**	mg/L	1	08/20/2024 11:27	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.146**	mg/L	1	08/14/2024 17:13	227065
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2024 17:13	227065
Boron	NELAP	0.0200		**0.122**	mg/L	1	08/14/2024 17:13	227065
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2024 17:13	227065
Calcium	NELAP	0.100		**63.2**	mg/L	1	08/14/2024 17:13	227065
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:13	227065
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:13	227065
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2024 17:13	227065
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2024 17:13	227065
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 9:54	227065
Arsenic	NELAP	0.0010		**0.107**	mg/L	5	08/14/2024 22:56	227065
Lithium	*	0.0030		**0.0038**	mg/L	5	08/14/2024 22:56	227065
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2024 22:56	227065
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/14/2024 22:56	227065
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/14/2024 12:31	227054
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/10/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-001
Client Sample ID: RW-3
Matrix: GROUNDWATER
Collection Date: 08/12/2024 10:18

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	09/10/2024 0:00	R353360

Client: City Water, Light & Power **Work Order:** 24080242

Client Project: Ash Pond Monitoring Wells **Report Date:** 18-Sep-24

Lab ID: 24080242-002 **Client Sample ID:** AP-1

Matrix: GROUNDWATER **Collection Date:** 08/12/2024 11:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**504.29**	ft	1	08/12/2024 11:19	R352005
Depth to water	*	-5.00		**9.07**	ft	1	08/12/2024 11:19	R352005
Depth to water from measuring point	*	0		**11.34**	ft	1	08/12/2024 11:19	R352005
Elevation of groundwater surface	*	0		**524.03**	ft	1	08/12/2024 11:19	R352005
Measuring Point Elevation	*	0		**535.37**	ft	1	08/12/2024 11:19	R352005
Measuring Point Height Above Land Surface	*	0		**2.27**	ft	1	08/12/2024 11:19	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.6**	NTU	1	08/12/2024 11:19	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.3**	°F	1	08/12/2024 11:19	R352005
SW-846 9040B								
pH, Field	*	1.00		**6.70**		1	08/12/2024 11:19	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1880**	umhos/cm @25C	1	08/12/2024 11:19	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1530**	mg/L	1	08/16/2024 9:44	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**836**	mg/L	20	08/20/2024 12:10	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.20**	mg/L	1	08/19/2024 9:33	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**59**	mg/L	2	08/22/2024 9:08	R352158
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.269**	mg/L	1	08/14/2024 17:15	227065
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2024 17:15	227065
Boron	NELAP	0.200		**22.9**	mg/L	10	08/15/2024 13:58	227065
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2024 17:15	227065
Calcium	NELAP	0.100		**244**	mg/L	1	08/14/2024 17:15	227065
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:15	227065
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:15	227065
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2024 17:15	227065
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2024 17:15	227065
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 9:59	227065
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2024 23:01	227065
Lithium	*	0.0030		**0.0103**	mg/L	5	08/14/2024 23:01	227065
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2024 23:01	227065
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/14/2024 23:01	227065
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/14/2024 12:34	227054
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/10/2024 0:00	R353360
Radium-228	*	0		**See Attached**	pci/L	1	09/10/2024 0:00	R353360

Client: City Water, Light & Power **Work Order:** 24080242

Client Project: Ash Pond Monitoring Wells **Report Date:** 18-Sep-24

Lab ID: 24080242-003 **Client Sample ID:** AP-2

Matrix: GROUNDWATER **Collection Date:** 08/12/2024 13:04

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.77**	ft	1	08/12/2024 13:04	R352005
Depth to water	*	-5.00		**5.99**	ft	1	08/12/2024 13:04	R352005
Depth to water from measuring point	*	0		**8.49**	ft	1	08/12/2024 13:04	R352005
Elevation of groundwater surface	*	0		**527.61**	ft	1	08/12/2024 13:04	R352005
Measuring Point Elevation	*	0		**536.10**	ft	1	08/12/2024 13:04	R352005
Measuring Point Height Above Land Surface	*	0		**2.50**	ft	1	08/12/2024 13:04	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**32**	NTU	1	08/12/2024 13:04	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**62.3**	°F	1	08/12/2024 13:04	R352005
SW-846 9040B								
pH, Field	*	1.00		**6.58**		1	08/12/2024 13:04	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1510**	umhos/cm @25C	1	08/12/2024 13:04	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1110**	mg/L	1	08/16/2024 9:44	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**417**	mg/L	20	08/20/2024 12:18	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.25**	mg/L	1	08/19/2024 9:35	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**39**	mg/L	1	08/20/2024 12:13	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0751**	mg/L	1	08/14/2024 17:16	227065
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2024 17:16	227065
Boron	NELAP	0.0200		**3.10**	mg/L	1	08/14/2024 17:16	227065
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2024 17:16	227065
Calcium	NELAP	0.100		**206**	mg/L	1	08/14/2024 17:16	227065
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:16	227065
Cobalt	NELAP	0.0050		**0.0073**	mg/L	1	08/14/2024 17:16	227065
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2024 17:16	227065
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2024 17:16	227065
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 10:05	227065
Arsenic	NELAP	0.0010		**0.0031**	mg/L	5	08/14/2024 23:06	227065
Lithium	*	0.0030		**0.0081**	mg/L	5	08/14/2024 23:06	227065
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2024 23:06	227065
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/14/2024 23:06	227065
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/14/2024 12:36	227054
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/10/2024 0:00	R353360
Radium-228	*	0		**See Attached**	pci/L	1	09/10/2024 0:00	R353360

Client: City Water, Light & Power **Work Order:** 24080242

Client Project: Ash Pond Monitoring Wells **Report Date:** 18-Sep-24

Lab ID: 24080242-005 **Client Sample ID:** AP-4

Matrix: GROUNDWATER **Collection Date:** 08/12/2024 12:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.19**	ft	1	08/12/2024 12:35	R352005
Depth to water	*	-5.00		**7.69**	ft	1	08/12/2024 12:35	R352005
Depth to water from measuring point	*	0		**10.83**	ft	1	08/12/2024 12:35	R352005
Elevation of groundwater surface	*	0		**544.77**	ft	1	08/12/2024 12:35	R352005
Measuring Point Elevation	*	0		**555.60**	ft	1	08/12/2024 12:35	R352005
Measuring Point Height Above Land Surface	*	0		**3.14**	ft	1	08/12/2024 12:35	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**34**	NTU	1	08/12/2024 12:35	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**65.1**	°F	1	08/12/2024 12:35	R352005
SW-846 9040B								
pH, Field	*	1.00		**6.97**		1	08/12/2024 12:35	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**935**	umhos/cm @25C	1	08/12/2024 12:35	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**510**	mg/L	1	08/16/2024 9:56	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	08/20/2024 12:21	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.15**	mg/L	1	08/19/2024 9:42	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**15**	mg/L	1	08/20/2024 12:21	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.374**	mg/L	1	08/14/2024 17:18	227065
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2024 17:18	227065
Boron	NELAP	0.0200		**0.0825**	mg/L	1	08/14/2024 17:18	227065
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2024 17:18	227065
Calcium	NELAP	0.100	S	**118**	mg/L	1	08/14/2024 17:18	227065
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:18	227065
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:18	227065
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2024 17:18	227065
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2024 17:18	227065
Matrix spike control limits are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 10:21	227065
Arsenic	NELAP	0.0010		**0.0207**	mg/L	5	08/14/2024 23:22	227065
Lithium	*	0.0030		**0.0072**	mg/L	5	08/14/2024 23:22	227065
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2024 23:22	227065
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/14/2024 23:22	227065
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/14/2024 12:38	227054
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-005
Client Sample ID: AP-4
Matrix: GROUNDWATER
Collection Date: 08/12/2024 12:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power **Work Order:** 24080242

Client Project: Ash Pond Monitoring Wells **Report Date:** 18-Sep-24

Lab ID: 24080242-006 **Client Sample ID:** AP-5

Matrix: GROUNDWATER **Collection Date:** 08/12/2024 11:59

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**552.63**	ft	1	08/12/2024 11:59	R352005
Depth to water	*	-5.00		**15.04**	ft	1	08/12/2024 11:59	R352005
Depth to water from measuring point	*	0		**17.34**	ft	1	08/12/2024 11:59	R352005
Elevation of groundwater surface	*	0		**566.56**	ft	1	08/12/2024 11:59	R352005
Measuring Point Elevation	*	0		**583.90**	ft	1	08/12/2024 11:59	R352005
Measuring Point Height Above Land Surface	*	0		**2.30**	ft	1	08/12/2024 11:59	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**1.5**	NTU	1	08/12/2024 11:59	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.0**	°F	1	08/12/2024 11:59	R352005
SW-846 9040B								
pH, Field	*	1.00		**7.07**		1	08/12/2024 11:59	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**767**	umhos/cm @25C	1	08/12/2024 11:59	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**422**	mg/L	1	08/16/2024 9:56	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	20		**63**	mg/L	2	08/20/2024 12:34	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.32**	mg/L	1	08/19/2024 9:44	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**8**	mg/L	1	08/20/2024 12:29	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0521**	mg/L	1	08/14/2024 17:23	227065
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2024 17:23	227065
Boron	NELAP	0.0200		**0.0339**	mg/L	1	08/14/2024 17:23	227065
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2024 17:23	227065
Calcium	NELAP	0.100		**96.3**	mg/L	1	08/14/2024 17:23	227065
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:23	227065
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:23	227065
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2024 17:23	227065
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2024 17:23	227065
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 10:10	227065
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2024 23:12	227065
Lithium	*	0.0030		**0.0062**	mg/L	5	08/14/2024 23:12	227065
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2024 23:12	227065
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/14/2024 23:12	227065
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/14/2024 12:40	227054
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power **Work Order:** 24080242

Client Project: Ash Pond Monitoring Wells **Report Date:** 18-Sep-24

Lab ID: 24080242-007 **Client Sample ID:** AP-6

Matrix: GROUNDWATER **Collection Date:** 08/12/2024 10:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.20**	ft	1	08/12/2024 10:50	R352005
Depth to water	*	-5.00		**7.33**	ft	1	08/12/2024 10:50	R352005
Depth to water from measuring point	*	0		**9.75**	ft	1	08/12/2024 10:50	R352005
Elevation of groundwater surface	*	0		**528.07**	ft	1	08/12/2024 10:50	R352005
Measuring Point Elevation	*	0		**537.82**	ft	1	08/12/2024 10:50	R352005
Measuring Point Height Above Land Surface	*	0		**2.42**	ft	1	08/12/2024 10:50	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**30**	NTU	1	08/12/2024 10:50	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.2**	°F	1	08/12/2024 10:50	R352005
SW-846 9040B								
pH, Field	*	1.00		**7.16**		1	08/12/2024 10:50	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**723**	umhos/cm @25C	1	08/12/2024 10:50	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**396**	mg/L	1	08/16/2024 9:57	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10	S	**11**	mg/L	1	08/20/2024 12:40	R352032
Matrix spike did not recover within control limits. Results verify by dilution.								
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.56**	mg/L	1	08/19/2024 9:46	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**37**	mg/L	1	08/20/2024 12:39	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.152**	mg/L	1	08/14/2024 17:24	227065
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2024 17:24	227065
Boron	NELAP	0.0200		**0.250**	mg/L	1	08/14/2024 17:24	227065
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2024 17:24	227065
Calcium	NELAP	0.100		**65.6**	mg/L	1	08/14/2024 17:24	227065
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:24	227065
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:24	227065
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2024 17:24	227065
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2024 17:24	227065
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 10:16	227065
Arsenic	NELAP	0.0010		**0.0074**	mg/L	5	08/14/2024 23:17	227065
Lithium	*	0.0030		**0.0098**	mg/L	5	08/14/2024 23:17	227065
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2024 23:17	227065
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/14/2024 23:17	227065
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/14/2024 12:43	227054
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 08/12/2024 10:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power **Work Order:** 24080242

Client Project: Ash Pond Monitoring Wells **Report Date:** 18-Sep-24

Lab ID: 24080242-008 **Client Sample ID:** AP-7

Matrix: GROUNDWATER **Collection Date:** 08/12/2024 13:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**496.50**	ft	1	08/12/2024 13:52	R352005
Depth to water	*	-5.00		**9.36**	ft	1	08/12/2024 13:52	R352005
Depth to water from measuring point	*	0		**12.02**	ft	1	08/12/2024 13:52	R352005
Elevation of groundwater surface	*	0		**527.00**	ft	1	08/12/2024 13:52	R352005
Measuring Point Elevation	*	0		**539.02**	ft	1	08/12/2024 13:52	R352005
Measuring Point Height Above Land Surface	*	0		**2.66**	ft	1	08/12/2024 13:52	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**19**	NTU	1	08/12/2024 13:52	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.0**	°F	1	08/12/2024 13:52	R352005
SW-846 9040B								
pH, Field	*	1.00		**7.20**		1	08/12/2024 13:52	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**733**	umhos/cm @25C	1	08/12/2024 13:52	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**386**	mg/L	1	08/16/2024 9:57	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**14**	mg/L	1	08/20/2024 13:17	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.46**	mg/L	1	08/19/2024 9:47	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**50**	mg/L	1	08/20/2024 13:17	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.108**	mg/L	1	08/14/2024 17:26	227065
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2024 17:26	227065
Boron	NELAP	0.0200		**0.244**	mg/L	1	08/14/2024 17:26	227065
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2024 17:26	227065
Calcium	NELAP	0.100		**59.5**	mg/L	1	08/14/2024 17:26	227065
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:26	227065
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:26	227065
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2024 17:26	227065
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2024 17:26	227065
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**0.0016**	mg/L	5	08/15/2024 11:01	227065
Arsenic	NELAP	0.0010		**0.0438**	mg/L	5	08/14/2024 23:59	227065
Lithium	*	0.0030		**0.0063**	mg/L	5	08/15/2024 11:01	227065
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2024 23:59	227065
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/14/2024 23:59	227065
CCV recovered outside the upper control limits for Tl. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/14/2024 12:45	227054
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-008
Client Sample ID: AP-7
Matrix: GROUNDWATER
Collection Date: 08/12/2024 13:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power **Work Order:** 24080242

Client Project: Ash Pond Monitoring Wells **Report Date:** 18-Sep-24

Lab ID: 24080242-009 **Client Sample ID:** AP-8

Matrix: GROUNDWATER **Collection Date:** 08/13/2024 11:06

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.60**	ft	1	08/13/2024 11:06	R352005
Depth to water	*	-5.00		**4.07**	ft	1	08/13/2024 11:06	R352005
Depth to water from measuring point	*	0		**6.97**	ft	1	08/13/2024 11:06	R352005
Elevation of groundwater surface	*	0		**530.23**	ft	1	08/13/2024 11:06	R352005
Measuring Point Elevation	*	0		**537.20**	ft	1	08/13/2024 11:06	R352005
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	08/13/2024 11:06	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**34**	NTU	1	08/13/2024 11:06	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.7**	°F	1	08/13/2024 11:06	R352005
SW-846 9040B								
pH, Field	*	1.00		**7.03**		1	08/13/2024 11:06	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1000**	umhos/cm @25C	1	08/13/2024 11:06	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**526**	mg/L	1	08/16/2024 9:57	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**11**	mg/L	1	08/20/2024 13:25	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.33**	mg/L	1	08/19/2024 9:49	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**35**	mg/L	1	08/20/2024 13:25	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.407**	mg/L	1	08/15/2024 15:55	227124
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/15/2024 15:55	227124
Boron	NELAP	0.0200		**0.0855**	mg/L	1	08/15/2024 15:55	227124
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/15/2024 15:55	227124
Calcium	NELAP	0.100		**89.5**	mg/L	1	08/15/2024 15:55	227124
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/15/2024 15:55	227124
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/15/2024 15:55	227124
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/15/2024 15:55	227124
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/15/2024 15:55	227124
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:01	227124
Arsenic	NELAP	0.0010		**0.0414**	mg/L	5	08/15/2024 14:01	227124
Lithium	*	0.0030		**0.0075**	mg/L	5	08/15/2024 14:01	227124
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:01	227124
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/15/2024 14:01	227124
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/15/2024 16:13	227118
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power **Work Order:** 24080242

Client Project: Ash Pond Monitoring Wells **Report Date:** 18-Sep-24

Lab ID: 24080242-011 **Client Sample ID:** AP-10

Matrix: GROUNDWATER **Collection Date:** 08/13/2024 10:43

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**499.43**	ft	1	08/13/2024 10:43	R352005
Depth to water	*	-5.00		**2.29**	ft	1	08/13/2024 10:43	R352005
Depth to water from measuring point	*	0		**5.39**	ft	1	08/13/2024 10:43	R352005
Elevation of groundwater surface	*	0		**532.11**	ft	1	08/13/2024 10:43	R352005
Measuring Point Elevation	*	0		**537.50**	ft	1	08/13/2024 10:43	R352005
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	08/13/2024 10:43	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.1**	NTU	1	08/13/2024 10:43	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**62.7**	°F	1	08/13/2024 10:43	R352005
SW-846 9040B								
pH, Field	*	1.00		**6.53**		1	08/13/2024 10:43	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1230**	umhos/cm @25C	1	08/13/2024 10:43	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**796**	mg/L	1	08/16/2024 10:20	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**108**	mg/L	5	08/20/2024 13:59	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.32**	mg/L	1	08/19/2024 9:53	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**30**	mg/L	1	08/20/2024 13:54	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.638**	mg/L	1	08/15/2024 15:56	227124
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/15/2024 15:56	227124
Boron	NELAP	0.0200		**3.90**	mg/L	1	08/15/2024 15:56	227124
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/15/2024 15:56	227124
Calcium	NELAP	0.100		**133**	mg/L	1	08/15/2024 15:56	227124
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/15/2024 15:56	227124
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/15/2024 15:56	227124
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/15/2024 15:56	227124
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/15/2024 15:56	227124
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:07	227124
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:07	227124
Lithium	*	0.0030		**0.0094**	mg/L	5	08/15/2024 14:07	227124
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:07	227124
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/15/2024 14:07	227124
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/15/2024 16:15	227118
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power **Work Order:** 24080242

Client Project: Ash Pond Monitoring Wells **Report Date:** 18-Sep-24

Lab ID: 24080242-015 **Client Sample ID:** AP-14

Matrix: GROUNDWATER **Collection Date:** 08/13/2024 11:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**508.40**	ft	1	08/13/2024 11:19	R352005
Depth to water	*	-5.00		**0.57**	ft	1	08/13/2024 11:19	R352005
Depth to water from measuring point	*	0		**3.37**	ft	1	08/13/2024 11:19	R352005
Elevation of groundwater surface	*	0		**536.23**	ft	1	08/13/2024 11:19	R352005
Measuring Point Elevation	*	0		**539.60**	ft	1	08/13/2024 11:19	R352005
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	08/13/2024 11:19	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**10**	NTU	1	08/13/2024 11:19	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**62.0**	°F	1	08/13/2024 11:19	R352005
SW-846 9040B								
pH, Field	*	1.00		**6.76**		1	08/13/2024 11:19	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1760**	umhos/cm @25C	1	08/13/2024 11:19	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1610**	mg/L	1	08/16/2024 10:22	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**821**	mg/L	20	08/20/2024 14:45	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.28**	mg/L	1	08/19/2024 10:07	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**92**	mg/L	5	08/20/2024 14:26	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0371**	mg/L	1	08/15/2024 15:56	227124
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/15/2024 15:56	227124
Boron	NELAP	0.200		**20.0**	mg/L	10	08/16/2024 15:46	227124
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/15/2024 15:56	227124
Calcium	NELAP	0.100		**237**	mg/L	1	08/15/2024 15:56	227124
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/15/2024 15:56	227124
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/15/2024 15:56	227124
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/15/2024 15:56	227124
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/15/2024 15:56	227124
Sample result for B exceeds 10 times the CCB. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:12	227124
Arsenic	NELAP	0.0010		**0.0016**	mg/L	5	08/16/2024 11:25	227124
Lithium	*	0.0030		**0.0078**	mg/L	5	08/15/2024 14:12	227124
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:12	227124
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/15/2024 14:12	227124
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/15/2024 16:17	227118
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24080242
Report Date: 18-Sep-24

Carrier: Justin Colp

Received By: PRS

Completed by: Amber Dilallo
On: 13-Aug-24

Reviewed by: Shelly A. Hennessy
On: 27-Aug-24

Pages to follow: Chain of custody 4 Extra pages included 60

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	12.1
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐			
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐		
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐			

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

Samples were received on 8/12/24 at 1635 on ice [12.1C - LTG#9]. pH strip #96651. - amberdilallo - 8/13/2024 8:19:55 AM

Samples were received on 8/13/24 at 1427 on ice [3.7C - LTG#5]. pH strip #96651. - amberdilallo - 8/13/2024 3:24:03 PM

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24080242

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 12.1 °C LAG-9
Preserved in: [ ] LAB [X] FIELD FOR LAB USE ONLY
LAB NOTES: pH/9040/1
PS8113

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring
*Damaged - to be collected @ later date SAH 8/14/24

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Colp

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24080242-001	RW-3	8.12.24 1018	Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	AP-1	8.12.24 1119	Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	AP-2	8.12.24 1304	Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	AP-3 *		Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	AP-4	8.12.24 1235	Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	AP-5	8.12.24 1159	Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	AP-6	8.12.24 1050	Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	AP-7	8.12.24 1352	Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AP-8		Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AP-9	8.12.24 1421	Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	AP-10		Groundwater	1	2								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
J. Colp	8.12.24 1635	Paul Gaty	8/12/24 1635

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24080242

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Joshn Colp

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers									INDICATE ANALYSIS REQUESTED													
				UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity									
24080245 01	AP-11	8-12-24 1207	Groundwater	1	2								✓	✓	✓	✓	✓	✓									
013	AP-12	1302	Groundwater	1	2								✓	✓	✓	✓	✓	✓									
014	AP-13	1328	Groundwater	1	2								✓	✓	✓	✓	✓	✓									
015	AP-14		Groundwater	1	2								✓	✓	✓	✓	✓	✓									
016	T-1	1418	Groundwater	1	2								✓	✓	✓	✓	✓	✓									
017	T-2	1232	Groundwater	1	2								✓	✓	✓	✓	✓	✓									
018	T-4		Groundwater	1	2								✓	✓	✓	✓	✓	✓									
019	T-5		Groundwater	1	2								✓	✓	✓	✓	✓	✓									
020	T-6		Groundwater	1	2								✓	✓	✓	✓	✓	✓									
			Groundwater																								
			Groundwater																								

Relinquished By	Date/Time	Received By	Date/Time
J Colp	8.12.24 1635	Paul Getty	8/12/24 1635

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24080242

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 3.7 °C
Preserved in: [ ] LAB [X] FIELD FOR LAB USE ONLY
LAB NOTES: pH/alkal PS 8/13

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24080242-001	RW-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	AP-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	AP-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	AP-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	AP-4		Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	AP-5		Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	AP-6		Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	AP-7		Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AP-8	8.13.24 1106	Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AP-9		Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	AP-10	8-13-24 1043	Groundwater	1	2								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
	8-13-24 1427		8/13/24 1427

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24080242

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE ____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24080245	AP-11		Groundwater	1	2								✔	✔	✔	✔	✔	✔
013	AP-12		Groundwater	1	2								✔	✔	✔	✔	✔	✔
014	AP-13		Groundwater	1	2								✔	✔	✔	✔	✔	✔
015	AP-14	8-13-24 1119	Groundwater	1	2								✔	✔	✔	✔	✔	✔
016	T-1		Groundwater	1	2								✔	✔	✔	✔	✔	✔
017	T-2		Groundwater	1	2								✔	✔	✔	✔	✔	✔
018	T-4	8.13.24 1220	Groundwater	1	2								✔	✔	✔	✔	✔	✔
019	T-5	8.13.24 1132	Groundwater	1	2								✔	✔	✔	✔	✔	✔
020	T-6	8.13.24 1044	Groundwater	1	2								✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
	8-13-24 1427		8/13/24 1427

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Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells **Monitoring Point:** RW-3

Project Location: Springfield, IL

W.O. Number (s): 24080242 **Date (s):** 8/12/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 74 °F Wind Direction: (N) S E W (circle two if needed)

Precipitation: (None) Light Heavy Sky: (Cloudy) Sunny Partly

Well Observations

			Locks	Yes	No
Well Pad	Good		Protective Casing		X
Casing	Good		Well		X
Protective Casing	Good				
Reference Mark/Identification	Good				

Groundwater Level Measurements

Static Water Level: 11.31 feet below TOC

Date/Time Measured: 8/12/2024 10:01 Total Depth: 44.01 feet below TOC

Water Column: 32.70 feet

Purging Activities

Purged By: Justin Colp Purge Date: 8/12/2024

Purge Method: Bladder Pump Well Diameter: 2"

Purge Volume Calculation (L): 32.7 ft. x 44.01 = 0.97 L x 3 Vol. = 2.91 L **Based on 3 water volumes in 3/8" tubing.*

Actual Purge Volume (L): 3.1

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:03	0.0	200	purge start time						
10:06	0.6	↓	7.20	764	60.2	2.13	-61.3	7.69	
10:09	1.3		7.22	745	60.0	1.17	-110.3	14.43	
10:12	1.9		7.23	707	59.0	0.99	-122.2	27.14	
10:15	2.5		7.22	699	59.8	0.96	-124.7	35.75	
10:18	3.1		7.23	698	60.3	0.95	-125.9	38.75	

Sampling Activities

Sampled By: Justin Colp Sample Date/Time: 8/12/2024 10:18

Sample Method: Low-Flow Sample Equipment: Bladder Pump

Sample Parameters: 7.23 pH 698 Spec. Cond. 60.3 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 11.46 feet below TOC Drawdown: 0.15 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Justin Colp **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells
Monitoring Point: AP-1
Project Location: Springfield, IL
W.O. Number (s): 24080242
Date (s): 8/12/2024

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.
Name: — Affiliation:

Weather Conditions

Temp: 76 °F — Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy — Sky: (Cloudy) Sunny Partly

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Good

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 8/12/2024 11:02
Static Water Level: 11.34 feet below TOC
Total Depth: 31.08 feet below TOC
Water Column: 19.74 feet

Purging Activities

Purged By: Justin Colp — Purge Date: 8/12/2024
Purge Method: Bladder Pump — Well Diameter: 2"
Purge Volume Calculation (L): 19.74 ft. x 31.08 = 0.68 L x 3 Vol. = 2.04 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 3.0
Physical appearance of purge water: Clear — Odor: None — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:03	0.0	188	purge start time						
11:07	0.7	↓	6.63	1,708	61.1	1.95	-1.0	14.66	
11:10	1.3		6.68	1,770	60.7	1.19	-43.0	21.01	
11:13	1.9		6.70	1,817	60.7	0.97	-63.7	14.91	
11:16	2.4		6.70	1,859	60.4	0.87	-74.3	13.60	
11:19	3.0		6.70	1,884	60.3	0.84	-80.1	8.56	

Sampling Activities

Sampled By: Justin Colp — Sample Date/Time: 8/12/2024 11:19
Sample Method: Low-Flow — Sample Equipment: Bladder Pump
Sample Parameters: 6.70 pH — 1,884 Spec. Cond. — 60.3 Temp
Field Filtered: No — Filter Type:
Water Level: 11.50 feet below TOC — Drawdown: 0.16 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Justin Colp — **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells
Monitoring Point: AP-2
Project Location: Springfield, IL
W.O. Number (s): 24080242
Date (s): 8/12/2024

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.
Name: — Affiliation:

Weather Conditions

Temp: 77 °F — Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy — Sky: (Cloudy) Sunny Partly

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Good

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 8/12/2024 12:50
Static Water Level: 8.49 feet below TOC
Total Depth: 21.33 feet below TOC
Water Column: 12.84 feet

Purging Activities

Purged By: Justin Colp — Purge Date: 8/12/2024
Purge Method: Bladder Pump — Well Diameter: 2"
Purge Volume Calculation (L): 12.84 ft. x 21.33 = 0.47 L x 3 Vol. = 1.41 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 2.5
Physical appearance of purge water: Clear — Odor: None — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:51	0.0	188	purge start time						
12:55	0.8	↓	6.58	1,506	62.2	1.42	18.8	59.88	
12:58	1.4		6.58	1,509	62.4	1.19	19.5	42.69	
13:01	1.9		6.58	1,509	62.4	1.15	20.0	35.14	
13:04	2.5		6.58	1,510	62.3	1.08	20.0	31.61	

Sampling Activities

Sampled By: Justin Colp — Sample Date/Time: 8/12/2024 13:04
Sample Method: Low-Flow — Sample Equipment: Bladder Pump
Sample Parameters: 6.58 pH — 1,510 Spec. Cond. — 62.3 Temp
Field Filtered: No — Filter Type:
Water Level: 8.73 feet below TOC — Drawdown: 0.24 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Justin Colp — **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells **Monitoring Point:** AP-3
Project Location: Springfield, IL
W.O. Number (s): 24080242 **Date (s):** 8/12/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: °F Wind Direction: N S E W (circle two if needed)
Precipitation: None Light Heavy Sky: Cloudy Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Damaged			
Casing	Damaged	Protective Casing		
Protective Casing	Damaged	Well		
Reference Mark/Identification	Damaged			

Groundwater Level Measurements

Static Water Level: feet below TOC
Date/Time Measured: Total Depth: feet below TOC
Water Column: feet

Purging Activities

Purged By: Purge Date:
Purge Method: Well Diameter: 2"
Purge Volume Calculation (L):
Actual Purge Volume (L):
Physical appearance of purge water: Odor: Color:

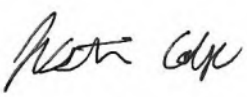
Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
			purge start time						

Sampling Activities

Sampled By: Sample Date/Time:
Sample Method: Sample Equipment:
Sample Parameters: pH Spec. Cond. Temp
Field Filtered: Filter Type:
Water Level: feet below TOC Drawdown: feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Well damaged by vehicle, notified by onsite personell of planned repair/redrill



Form Completed By: **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells
Monitoring Point: AP-4
Project Location: Springfield, IL
W.O. Number (s): 24080242
Date (s): 8/12/2024

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.
Name: — Affiliation:

Weather Conditions

Temp: 76 °F — Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy — Sky: (Cloudy) Sunny Partly

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Good

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 8/12/2024 12:13
Static Water Level: 10.83 feet below TOC
Total Depth: 60.41 feet below TOC
Water Column: 49.58 feet

Purging Activities

Purged By: Justin Colp — Purge Date: 8/12/2024
Purge Method: Bladder Pump — Well Diameter: 2"
Purge Volume Calculation (L): 49.58 ft. x 60.41 = 1.33 L x 3 Vol. = 3.99 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 4.1
Physical appearance of purge water: Clear — Odor: None — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:14	0.0	191	purge start time						
12:23	1.8	↓	6.96	933	65.6	1.45	-83.5	21.47	
12:26	2.3		6.96	935	65.5	1.10	-94.3	19.37	
12:29	2.9		6.97	935	65.3	0.98	-100.2	22.86	
12:32	3.5		6.97	935	65.2	0.91	-103.8	21.48	
12:35	4.1		6.97	935	65.1	0.89	-106.4	34.41	

Sampling Activities

Sampled By: Justin Colp — Sample Date/Time: 8/12/2024 12:35
Sample Method: Low-Flow — Sample Equipment: Bladder Pump
Sample Parameters: 6.97 pH — 935 Spec. Cond. — 65.1 Temp
Field Filtered: No — Filter Type:
Water Level: 11.00 feet below TOC — Drawdown: 0.17 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Justin Colp — **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells
Monitoring Point: AP-5
Project Location: Springfield, IL
W.O. Number (s): 24080242
Date (s): 8/12/2024

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.
Name: — Affiliation:

Weather Conditions

Temp: 76 °F — Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy — Sky: (Cloudy) Sunny Partly

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Good

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 8/12/2024 11:40
Static Water Level: 17.34 feet below TOC
Total Depth: 31.27 feet below TOC
Water Column: 13.93 feet

Purging Activities

Purged By: Justin Colp — Purge Date: 8/12/2024
Purge Method: Bladder Pump — Well Diameter: 2"
Purge Volume Calculation (L): 13.93 ft. x 31.27 = 0.69 L x 3 Vol. = 2.07 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 3.5
Physical appearance of purge water: Clear — Odor: None — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:41	0.0	191	purge start time						
11:47	1.2	↓	7.13	762	59.3	2.92	17.7	3.19	
11:50	1.8		7.11	762	59.2	2.28	18.9	3.11	
11:53	2.3		7.09	765	58.9	2.08	22.6	2.64	
11:56	2.9		7.08	767	59.0	2.01	26.9	2.39	
11:59	3.5		7.07	767	59.0	1.98	30.9	1.46	

Sampling Activities

Sampled By: Justin Colp — Sample Date/Time: 8/12/2024 11:59
Sample Method: Low-Flow — Sample Equipment: Bladder Pump
Sample Parameters: 7.07 pH — 767 Spec. Cond. — 59.0 Temp
Field Filtered: No — Filter Type:
Water Level: 17.62 feet below TOC — Drawdown: 0.28 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Justin Colp — **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells
Monitoring Point: AP-6
Project Location: Springfield, IL
W.O. Number (s): 24080242
Date (s): 8/12/2024

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.
Name: — Affiliation:

Weather Conditions

Temp: 75 °F — Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy — Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/12/2024 10:33
Static Water Level: 9.75 feet below TOC
Total Depth: 39.62 feet below TOC
Water Column: 29.87 feet

Purging Activities

Purged By: Justin Colp — Purge Date: 8/12/2024
Purge Method: Bladder Pump — Well Diameter: 2"
Purge Volume Calculation (L): 29.87 ft. x 39.62 = 0.87 L x 3 Vol. = 2.61 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 3.1
Physical appearance of purge water: Clear — Odor: None — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:35	0.0	200	purge start time						
10:38	0.6	↓	7.16	728	59.9	1.90	-6.1	5.72	
10:41	1.2		7.17	723	59.5	1.24	-36.0	10.76	
10:44	1.9		7.16	723	59.4	1.03	-39.9	15.00	
10:47	2.4		7.16	722	59.2	0.94	-39.9	20.97	
10:50	3.1		7.16	723	59.2	0.89	-39.3	29.64	

Sampling Activities

Sampled By: Justin Colp — Sample Date/Time: 8/12/2024 10:50
Sample Method: Low-Flow — Sample Equipment: Bladder Pump
Sample Parameters: 7.16 pH — 723 Spec. Cond. — 59.2 Temp
Field Filtered: No — Filter Type:
Water Level: 9.79 feet below TOC — Drawdown: 0.04 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Justin Colp — **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells
Monitoring Point: AP-7
Project Location: Springfield, IL
W.O. Number (s): 24080242
Date (s): 8/12/2024

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.
Name: — Affiliation:

Weather Conditions

Temp: 77 °F — Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy — Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/12/2024 13:36
Static Water Level: 12.02 feet below TOC
Total Depth: 42.52 feet below TOC
Water Column: 30.50 feet

Purging Activities

Purged By: Justin Colp — Purge Date: 8/12/2024
Purge Method: Bladder Pump — Well Diameter: 2"
Purge Volume Calculation (L): 30.5 ft. x 42.52 = 0.94 L x 3 Vol. = 2.82 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 3.0
Physical appearance of purge water: Clear — Odor: None — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:37	0.0	200	purge start time						
13:40	0.6	↓	7.29	742	59.3	1.59	-37.2	16.71	
13:43	1.2		7.25	750	58.4	1.11	-89.9	37.06	
13:46	1.8		7.23	738	58.2	0.98	-95.0	35.04	
13:49	2.4		7.21	732	58.1	0.92	-95.6	27.20	
13:52	3.0		7.20	733	58.0	0.88	-95.5	19.12	

Sampling Activities

Sampled By: Justin Colp — Sample Date/Time: 8/12/2024 13:52
Sample Method: Low-Flow — Sample Equipment: Bladder Pump
Sample Parameters: 7.20 pH — 733 Spec. Cond. — 58.0 Temp
Field Filtered: No — Filter Type:
Water Level: 12.23 feet below TOC — Drawdown: 0.21 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Justin Colp — **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells
Monitoring Point: AP-8
Project Location: Springfield, IL
W.O. Number (s): 24080242
Date (s): 8/13/2024

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.
Name: — Affiliation:

Weather Conditions

Temp: 73 °F — Wind Direction: N S E (W) (circle two if needed)
Precipitation: (None) Light Heavy — Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/13/2024 10:51
Static Water Level: 6.97 feet below TOC
Total Depth: 39.60 feet below TOC
Water Column: 32.63 feet

Purging Activities

Purged By: Justin Colp — Purge Date: 8/13/2024
Purge Method: Peristaltic Pump — Well Diameter: 2"
Purge Volume Calculation (L): 32.63 ft. x 39.6 = 0.87 L x 3 Vol. = 2.61 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 3.2
Physical appearance of purge water: Clear — Odor: None — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:52	0.0	214	purge start time						
10:54	0.6	↓	7.07	1,008	60.8	1.60	-83.4	18.46	
10:57	1.3		7.06	1,005	60.7	1.06	-97.5	19.65	
11:00	1.9		7.05	1,003	59.0	0.86	-104.6	32.94	
11:03	2.6		7.04	1,002	58.9	0.79	-107.9	30.61	
11:06	3.2		7.03	1,003	60.7	0.76	-109.9	33.73	

Sampling Activities

Sampled By: Justin Colp — Sample Date/Time: 8/13/2024 11:06
Sample Method: Low-Flow — Sample Equipment: Peristaltic Pump
Sample Parameters: 7.03 pH — 1,003 Spec. Cond. — 60.7 Temp
Field Filtered: No — Filter Type:
Water Level: 8.19 feet below TOC — Drawdown: 1.22 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Justin Colp — **Date:** 8/13/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells
Monitoring Point: AP-10
Project Location: Springfield, IL
W.O. Number (s): 24080242
Date (s): 8/13/2024

Field Team Members

Name: Brett Gillihan — Affiliation: TekLab, Inc.
Name: — Affiliation:

Weather Conditions

Temp: 77 °F — Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy — Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/13/2024 10:23
Static Water Level: 5.39 feet below TOC
Total Depth: 38.07 feet below TOC
Water Column: 32.68 feet

Purging Activities

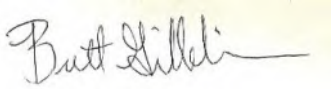
Purged By: Brett Gillihan — Purge Date: 8/13/2024
Purge Method: Peristaltic Pump — Well Diameter: 2"
Purge Volume Calculation (L): 32.68 ft. x 38.07 = 0.84 L x 3 Vol. = 2.52 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 3.6
Physical appearance of purge water: Clear — Odor: None — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:23	0.0	175	purge start time						
10:31	1.5	↓	6.55	1,224	61.9	1.99	-98.4	4.31	
10:34	2.0		6.54	1,220	62.2	1.65	-100.6	4.00	
10:37	2.6		6.54	1,224	63.0	1.77	-100.0	3.62	
10:40	3.1		6.53	1,226	62.9	1.62	-100.9	3.48	
10:43	3.6		6.53	1,227	62.7	1.37	-101.9	3.12	

Sampling Activities

Sampled By: Brett Gillihan — Sample Date/Time: 8/13/2024 10:43
Sample Method: Low-Flow — Sample Equipment: Peristaltic Pump
Sample Parameters: 6.53 pH — 1,227 Spec. Cond. — 62.7 Temp
Field Filtered: No — Filter Type:
Water Level: 5.88 feet below TOC — Drawdown: 0.49 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)



Form Completed By: — **Date:** 8/13/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells
Monitoring Point: AP-14
Project Location: Springfield, IL
W.O. Number (s): 24080242
Date (s): 8/13/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 74 °F Wind Direction: N S E (W) (circle two if needed)
Precipitation: (None) Light Heavy Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/13/2024 11:00
Static Water Level: 3.37 feet below TOC
Total Depth: 31.20 feet below TOC
Water Column: 27.83 feet

Purging Activities

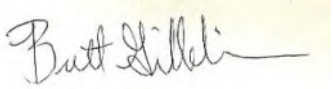
Purged By: Brett Gillihan Purge Date: 8/13/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 27.83 ft. x 31.2 = 0.69 L x 3 Vol. = 2.07 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 6.5
Physical appearance of purge water: Clear Odor: Slight Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:00	0.0	333	purge start time						
11:07	2.5	↓	6.76	1,752	64.9	2.46	-44.5	10.41	
11:10	3.5		6.75	1,754	64.8	2.21	-44.5	13.84	
11:13	4.5		6.77	1,753	62.8	1.90	-45.2	11.14	
11:16	5.5		6.77	1,759	62.3	1.68	-45.8	6.70	
11:19	6.5		6.76	1,761	62.0	1.54	-46.3	10.36	

Sampling Activities

Sampled By: Brett Gillihan Sample Date/Time: 8/13/2024 11:19
Sample Method: Low-Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.76 pH 1,761 Spec. Cond. 62.0 Temp
Field Filtered: No Filter Type:
Water Level: 4.12 feet below TOC Drawdown: 0.75 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)



Form Completed By: **Date:** 8/13/2024

Site Samping Event: Ash Pond Monitoring Wells
LIMS Workorder: 24080242
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- 3Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 45985 Technician(s): Brett Gillihan Date: 8/12/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC240612A	4.01	8/12/24 9:59
7.0 Buffer	WC240307F	6.99	8/12/24 9:54
10.0 Buffer	WC240625B	9.99	8/12/24 10:02
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	98627	1410	8/12/24 10:09

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.4	8/12/24 10:15
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-BG	LCS	8/12/24 10:19	22.4	7.01	1,410			
CCV-1-BG	CCV	8/12/24 15:30	23.6	7.04	1,416			

Comments:

Field Meter ID: Pine 45985 Technician(s): Brett Gillihan Date: 8/13/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC240612A	4.02	8/13/24 8:58
7.0 Buffer	WC240307F	7.00	8/13/24 8:54
10.0 Buffer	WC240625B	10.01	8/13/24 9:01
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	98627	1412	8/13/24 9:05

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.9	8/13/24 9:15
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-BG	LCS	8/13/24 9:20	23.5	7.01	1,411			
CCV-2-BG	CCV	8/13/24 12:19	24.5	7.02	1,420			

Comments:

Site Samping Event: Ash Pond Monitoring Wells
LIMS Workorder: 24080242
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- 3Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 223344 Technician(s): Tracy Carroll Date: 8/12/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC240612A	4.01	8/12/24 10:31
7.0 Buffer	WC240307F	7.01	8/12/24 10:23
10.0 Buffer	WC240625B	10.00	8/12/24 10:39
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	98627	1412	8/12/24 10:39

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-TC	LCS	8/12/24 10:44	24.6	7.03	1,410			
CCV-1-TC	CCV	8/12/24 14:28	25.2	7.08	1,453			

Comments:

Field Meter ID: Pine 223344 Technician(s): Tracy Carroll Date: 8/13/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC240612A	4.00	8/13/24 9:38
7.0 Buffer	WC240307F	7.01	8/13/24 9:35
10.0 Buffer	WC240625B	10.00	8/13/24 9:41
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	98627	1412	8/13/24 9:37

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-TC	LCS	8/13/24 9:42	21	7.02	1,413			
CCV-2-TC	CCV	8/13/24 14:18	22.5	7.06	1,422			

Comments:

Site Samping Event: Ash Pond Monitoring Wells
LIMS Workorder: 24080242
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- 3Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 218074 Technician(s): justin colp Date: 8/12/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc240612a	4.00	8/12/24 9:33
7.0 Buffer	wc240307f	6.99	8/12/24 9:30
10.0 Buffer	wc240625b	9.99	8/12/24 9:36
LCS/CCV (7.0 Buffer)	wc231207a		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	98627	1413	8/12/24 9:39

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.41	8/12/24 9:42
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-JC	LCS	8/12/24 9:45	23.2	6.99	1,413	0.41		
CCV-1-JC	CCV	8/12/24 14:44	24.49	7.01	1,427	0.47		

Comments:

Field Meter ID: Pine 218074 Technician(s): justin colp Date: 8/13/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc240612a	3.99	8/13/24 8:55
7.0 Buffer	wc240307f	7.00	8/13/24 8:57
10.0 Buffer	wc240625b	10.00	8/13/24 8:59
LCS/CCV (7.0 Buffer)	wc231207a		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	98627	1410	8/13/24 9:04

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.43	8/13/24 9:07
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-JC	LCS	8/13/24 9:10	23.1	7.00	1,410	0.43		
CCV-2-JC	CCV	8/13/24 11:36	24.8	7.02	1,416	0.47		

Comments:

Summit Environmental Technologies, Inc.
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Website: http://www.settek.com

September 18, 2024

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 24080242

Dear Shelly Hennessy:

Order No.: 24081370

Summit Environmental Technologies, Inc. received 19 sample(s) on 8/19/2024 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Case Narrative

WO#: **24081370**
Date: **9/18/2024**

CLIENT: TEKLAB Inc,
Project: 24080242

WorkOrder Narrative:
24081370: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, In
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-44&
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **24081370**
Date: **9/18/2024**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Workorder Sample Summary

WO#: **24081370**

18-Sep-24

CLIENT: TEKLAB Inc,
Project: 24080242

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24081370-001	24080242-001		8/12/2024 10:18:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-002	24080242-002		8/12/2024 11:19:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-003	24080242-003		8/12/2024 1:04:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-004	24080242-005		8/12/2024 12:35:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-005	24080242-006		8/12/2024 11:59:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-006	24080242-007		8/12/2024 10:50:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-007	24080242-008		8/12/2024 1:52:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-008	24080242-009		8/13/2024 11:06:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-009	24080242-010		8/12/2024 2:21:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-010	24080242-011		8/13/2024 10:43:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-011	24080242-012		8/12/2024 12:07:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-012	24080242-013		8/12/2024 1:02:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-013	24080242-014		8/12/2024 1:28:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-014	24080242-015		8/13/2024 11:19:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-015	24080242-016		8/12/2024 2:18:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-016	24080242-017		8/12/2024 12:32:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-017	24080242-018		8/13/2024 12:20:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-018	24080242-019		8/13/2024 11:32:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-019	24080242-020		8/13/2024 10:44:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water

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Website: http://www.settek.com

DATES REPORT

WO#: **24081370**

18-Sep-24

Client: TEKLAB Inc,

Project: 24080242

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24081370-001A	24080242-001	8/12/2024 10:18:00 AM	Non-Potable Water	Combined Radium (EPA903+904)			9/17/2024 12:00:15 PM
				Radium-226 (EPA 903.0)		9/5/2024 10:37:44 AM	9/11/2024 1:22:47 PM
				Radium-228 (EPA 904.0)		9/5/2024 10:37:44 AM	9/10/2024 1:54:42 PM
24081370-002A	24080242-002	8/12/2024 11:19:00 AM		Combined Radium (EPA903+904)			9/17/2024 12:00:15 PM
				Radium-226 (EPA 903.0)		9/5/2024 10:37:44 AM	9/11/2024 1:22:47 PM
				Radium-228 (EPA 904.0)		9/5/2024 10:37:44 AM	9/10/2024 1:54:42 PM
24081370-003A	24080242-003	8/12/2024 1:04:00 PM		Combined Radium (EPA903+904)			9/17/2024 12:00:15 PM
				Radium-226 (EPA 903.0)		9/5/2024 10:37:44 AM	9/11/2024 1:22:47 PM
				Radium-228 (EPA 904.0)		9/5/2024 10:37:44 AM	9/10/2024 1:54:42 PM
24081370-004A	24080242-005	8/12/2024 12:35:00 PM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-005A	24080242-006	8/12/2024 11:59:00 AM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-006A	24080242-007	8/12/2024 10:50:00 AM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-007A	24080242-008	8/12/2024 1:52:00 PM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-008A	24080242-009	8/13/2024 11:06:00 AM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM

Original

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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

DATES REPORT

WO#: **24081370**

18-Sep-24

Client: TEKLAB Inc,

Project: 24080242

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24081370-008A	24080242-009	8/13/2024 11:06:00 AM	Non-Potable Water	Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-009A	24080242-010	8/12/2024 2:21:00 PM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-010A	24080242-011	8/13/2024 10:43:00 AM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-011A	24080242-012	8/12/2024 12:07:00 PM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-012A	24080242-013	8/12/2024 1:02:00 PM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-013A	24080242-014	8/12/2024 1:28:00 PM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-014A	24080242-015	8/13/2024 11:19:00 AM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-015A	24080242-016	8/12/2024 2:18:00 PM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-016A	24080242-017	8/12/2024 12:32:00 PM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM

Original

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DATES REPORT

WO#: **24081370**

18-Sep-24

Client: TEKLAB Inc,

Project: 24080242

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24081370-016A	24080242-017	8/12/2024 12:32:00 PM	Non-Potable Water	Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-017A	24080242-018	8/13/2024 12:20:00 PM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-018A	24080242-019	8/13/2024 11:32:00 AM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-019A	24080242-020	8/13/2024 10:44:00 AM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM

Original

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC. Analytical Laboratories

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Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,

Collection Date: 8/12/2024 10:18:00 AM

Project: 24080242

Lab ID: 24081370-001

Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-001

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**		Analyst: **HDJ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.380	1	9/17/2024 12:00:15 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0700	1	9/11/2024 1:22:47 PM
Yield	1.00					1	9/11/2024 1:22:47 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.310	1	9/10/2024 1:54:42 PM
Yield	1.00					1	9/10/2024 1:54:42 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,

Collection Date: 8/12/2024 11:19:00 AM

Project: 24080242

Lab ID: 24081370-002

Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-002

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**		Analyst: **HDJ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.380	1	9/17/2024 12:00:15 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0700	1	9/11/2024 1:22:47 PM
Yield	1.00					1	9/11/2024 1:22:47 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.310	1	9/10/2024 1:54:42 PM
Yield	1.00					1	9/10/2024 1:54:42 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

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WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,

Collection Date: 8/12/2024 1:04:00 PM

Project: 24080242

Lab ID: 24081370-003

Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-003

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**		Analyst: **HDJ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.320	1	9/17/2024 12:00:15 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0700	1	9/11/2024 1:22:47 PM
Yield	1.00					1	9/11/2024 1:22:47 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.250	1	9/10/2024 1:54:42 PM
Yield	1.00					1	9/10/2024 1:54:42 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

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WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,

Collection Date: 8/12/2024 12:35:00 PM

Project: 24080242

Lab ID: 24081370-004

Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-005

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 0.760	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.100	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	2.00		pCi/L	± 0.660	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

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WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,

Collection Date: 8/12/2024 11:59:00 AM

Project: 24080242

Lab ID: 24081370-005

Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-006

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 0.970	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.0600	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	2.00		pCi/L	± 0.910	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

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WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,

Collection Date: 8/12/2024 10:50:00 AM

Project: 24080242

Lab ID: 24081370-006

Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-007

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 0.840	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.0500	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	2.00		pCi/L	± 0.790	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,

Collection Date: 8/12/2024 1:52:00 PM

Project: 24080242

Lab ID: 24081370-007

Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-008

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 0.890	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.120	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	2.00		pCi/L	± 0.770	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,

Collection Date: 8/13/2024 11:06:00 AM

Project: 24080242

Lab ID: 24081370-008

Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-009

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 1.26	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.250	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	2.23	2.00		pCi/L	± 1.01	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,

Collection Date: 8/13/2024 10:43:00 AM

Project: 24080242

Lab ID: 24081370-010

Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-011

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 1.09	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.160	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	2.00		pCi/L	± 0.930	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

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WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,

Collection Date: 8/13/2024 11:19:00 AM

Project: 24080242

Lab ID: 24081370-014

Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-015

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 0.840	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.120	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	2.00		pCi/L	± 0.720	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24081370**

18-Sep-24

Client: TEKLAB Inc,
Project: 24080242 **BatchID:** **78364**

Sample ID: **MB-78364**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/5/2024**	RunNo: **192975**
Client ID: **PBW**	Batch ID: **78364**	TestNo: **E904.0**	**E903-904**	Analysis Date: **9/10/2024**	SeqNo: **5224910**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-78364**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/5/2024**	RunNo: **192975**
Client ID: **LCSW**	Batch ID: **78364**	TestNo: **E904.0**	**E903-904**	Analysis Date: **9/10/2024**	SeqNo: **5224911**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.73	1.00	5.000	0	74.6	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-78364**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/5/2024**	RunNo: **192975**
Client ID: **LCSS02**	Batch ID: **78364**	TestNo: **E904.0**	**E903-904**	Analysis Date: **9/10/2024**	SeqNo: **5224912**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.48	1.00	5.000	0	69.6	50	130	3.730	6.93	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **24081370**

18-Sep-24

Client: TEKLAB Inc,

Project: 24080242 **BatchID:** **78364**

Sample ID: **24081279-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/5/2024** RunNo: **192975**

Client ID: **BatchQC** Batch ID: **78364** TestNo: **E904.0** **E903-904** Analysis Date: **9/10/2024** SeqNo: **5224919**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **24081370**

18-Sep-24

Client: TEKLAB Inc,
Project: 24080242 **BatchID:** **78364**

Sample ID: **MB-78364**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/5/2024**	RunNo: **192981**
Client ID: **PBW**	Batch ID: **78364**	TestNo: **E903.0**	**E903-904**	Analysis Date: **9/11/2024**	SeqNo: **5224968**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-78364**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/5/2024**	RunNo: **192981**
Client ID: **LCSW**	Batch ID: **78364**	TestNo: **E903.0**	**E903-904**	Analysis Date: **9/11/2024**	SeqNo: **5224969**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.96	1.00	5.000	0	99.2	70	130				

Sample ID: **LCSD-78364**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/5/2024**	RunNo: **192981**
Client ID: **LCSS02**	Batch ID: **78364**	TestNo: **E903.0**	**E903-904**	Analysis Date: **9/11/2024**	SeqNo: **5224970**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.78	1.00	5.000	0	95.6	70	130	4.960	3.70	20	

Sample ID: **24081277-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/5/2024**	RunNo: **192981**
Client ID: **BatchQC**	Batch ID: **78364**	TestNo: **E903.0**	**E903-904**	Analysis Date: **9/11/2024**	SeqNo: **5224975**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24081370**

18-Sep-24

Client: TEKLAB Inc,

Project: 24080242 **BatchID:** **78364**

Sample ID: **24081277-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/5/2024** RunNo: **192981**

Client ID: **BatchQC** Batch ID: **78364** TestNo: **E903.0** **E903-904** Analysis Date: **9/11/2024** SeqNo: **5224975**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24081370**

18-Sep-24

Client: TEKLAB Inc,
Project: 24080242 **BatchID:** **78453**

Sample ID: **MB-78453**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/9/2024**	RunNo: **193345**
Client ID: **PBW**	Batch ID: **78453**	TestNo: **E904.0**	**E903-904**	Analysis Date: **9/16/2024**	SeqNo: **5233515**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-78453**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/9/2024**	RunNo: **193345**
Client ID: **LCSW**	Batch ID: **78453**	TestNo: **E904.0**	**E903-904**	Analysis Date: **9/16/2024**	SeqNo: **5233516**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.33	1.00	5.000	0	66.6	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-78453**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/9/2024**	RunNo: **193345**
Client ID: **LCSS02**	Batch ID: **78453**	TestNo: **E904.0**	**E903-904**	Analysis Date: **9/16/2024**	SeqNo: **5233517**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.07	1.00	5.000	0	61.4	50	130	3.330	8.13	20	
Yield	0.960			0	0			1.000	4.08		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24081370**

18-Sep-24

Client: TEKLAB Inc,
Project: 24080242 **BatchID:** **78453**

Sample ID: **24081834-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/9/2024** RunNo: **193345**
Client ID: **BatchQC** Batch ID: **78453** TestNo: **E904.0** **E903-904** Analysis Date: **9/16/2024** SeqNo: **5233540**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.09	1.00		0	0			0.7400	38.3	20	R
Yield	0.980			0	0			1.000	2.02		

Sample ID: **24081834-002ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/9/2024** RunNo: **193345**
Client ID: **BatchQC** Batch ID: **78453** TestNo: **E904.0** **E903-904** Analysis Date: **9/16/2024** SeqNo: **5233542**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24081370**

18-Sep-24

Client: TEKLAB Inc,
Project: 24080242 **BatchID:** **78453**

Sample ID: **MB-78453**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/9/2024**	RunNo: **193353**
Client ID: **PBW**	Batch ID: **78453**	TestNo: **E903.0**	**E903-904**	Analysis Date: **9/17/2024**	SeqNo: **5233739**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-78453**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/9/2024**	RunNo: **193353**
Client ID: **LCSW**	Batch ID: **78453**	TestNo: **E903.0**	**E903-904**	Analysis Date: **9/17/2024**	SeqNo: **5233740**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.33	1.00	5.000	0	86.6	70	130				QLR

Sample ID: **LCSD-78453**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/9/2024**	RunNo: **193353**
Client ID: **LCSS02**	Batch ID: **78453**	TestNo: **E903.0**	**E903-904**	Analysis Date: **9/17/2024**	SeqNo: **5233741**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.36	1.00	5.000	0	107	70	130	4.330	21.3	20	R

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24081370**

18-Sep-24

Client: TEKLAB Inc,
Project: 24080242 **BatchID:** **78453**

Sample ID: **24081834-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/9/2024** RunNo: **193353**
Client ID: **BatchQC** Batch ID: **78453** TestNo: **E903.0** **E903-904** Analysis Date: **9/17/2024** SeqNo: **5233764**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Sample ID: **24081834-002ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/9/2024** RunNo: **193353**
Client ID: **BatchQC** Batch ID: **78453** TestNo: **E903.0** **E903-904** Analysis Date: **9/17/2024** SeqNo: **5233766**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

24081370

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Cooler Temp: Sampler: Teklab, Inc. QC Level: 2

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Comments: **Please Issue reports and invoices via email only**
Please analyze for Ra226, Ra228 and Combinded Radium per your usual methods.
Changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site.

Project# 24080242

Contact: Shelly Hennessy Email: shennessy@teklabinc.com
Requested Due Date: Standard TAT Billing/PO: 36831 Phone: (618) 344-1004 ext. 36

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228	Radium 226	Radium 228										
	24080242-001	8/12/24 1018	HNO3	Groundwater	✓	✓	✓	pH	1	Cpm=57							
	24080242-002	8/12/24 1119	HNO3	Groundwater	✓	✓	✓		1		10						
	24080242-003	8/12/24 1304	HNO3	Groundwater	✓	✓	✓		1		30						
	24080242-005	8/12/24 1235	HNO3	Groundwater	✓	✓	✓		1		18						
	24080242-006	8/12/24 1159	HNO3	Groundwater	✓	✓	✓		1		41						
	24080242-007	8/12/24 1050	HNO3	Groundwater	✓	✓	✓		1		37						
	24080242-008	8/12/24 1352	HNO3	Groundwater	✓	✓	✓		1		11						
	24080242-009	8/13/24 1106	HNO3	Groundwater	✓	✓	✓		1		41						
	24080242-010	8/12/24 1421	HNO3	Groundwater	✓	✓	✓		1		33						
	24080242-011	8/13/24 1043	HNO3	Groundwater	✓	✓	✓		1		17						
	24080242-012	8/12/24 1207	HNO3	Groundwater	✓	✓	✓	✓	1		33						

21.6 - 0.1 = 21.5, Feder Cooler

*Relinquished By	Date/Time	Received By	Date/Time
Mon Wells	8/14/24 1700	AUG 19 2024	12 30

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: Teklab, Inc. | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Ra226, Ra228 and Combinded Radium per your usual methods.
Changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site.

Project# 24080242

Contact: Shelly Hennessy | Email: shennessy@teklabinc.com
Requested Due Date: Standard TAT | Billing/PO: 36831 | Phone: (618) 344-1004 ext. 36

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228	Radium 226	Radium 228										
	24080242-013	8/12/24 1302	HNO3	Groundwater	✔	✔	✔	pH	1		Com 33						
	24080242-014	8/12/24 1328	HNO3	Groundwater	✔	✔	✔		1		45						
	24080242-015	8/13/24 1119	HNO3	Groundwater	✔	✔	✔		1		33						
	24080242-016	8/12/24 1418	HNO3	Groundwater	✔	✔	✔		1		17						
	24080242-017	8/12/24 1232	HNO3	Groundwater	✔	✔	✔		1		34						
	24080242-018	8/13/24 1220	HNO3	Groundwater	✔	✔	✔		1		56						
	24080242-019	8/13/24 1132	HNO3	Groundwater	✔	✔	✔		1		52						
	24080242-020	8/13/24 1044	HNO3	Groundwater	✔	✔	✔	✓	1		24						
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													

21.6 - 0.1 = 21.5, Feder Coder

*Relinquished By	Date/Time	Received By	Date/Time
[signature]	8/14/24 1700	[signature] AUG 19 2024	1230

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization and proprietary rights.
Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24081370 RcptNo: 1

Logged by:	Anthony W. Britton	8/19/2024 12:30:00 PM	Anthony Britton
Completed By:	Christina N. Gemma	8/20/2024 9:28:43 AM	C. Gemma
Reviewed By:	Jennifer Woolf	8/20/2024 1:59:11 PM	Jennifer Woolf

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	FedEx		

Log In

3.	Coolers are present?	Yes ☑	No ☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
	Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
	No. Seal Date: Signed By:			
5.	Was an attempt made to cool the samples?	Yes ☐	No ☑	NA ☐
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☑	NA ☐
		Not required		
7.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
8.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
9.	Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
10.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
11.	Is the headspace in the VOA vials less than 1/4 inch or 6 mm?	Yes ☐	No ☐	No VOA Vials ☑
12.	Were any sample containers received broken?	Yes ☐	No ☑	
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
14.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
15.	Is it clear what analyses were requested?	Yes ☑	No ☐	
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

Special Handling (if applicable)

17.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	21.5	Good	Not Present			

September 24, 2024

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 24082414

Dear Eric Staley:

TEKLAB, INC received 1 sample on 8/29/2024 11:54:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24082414
Report Date: 24-Sep-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	8
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 24082414

Client Project: Ash Pond Monitoring Wells **Report Date:** 24-Sep-24

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Definitions

Client: City Water, Light & Power
Work Order: 24082414
Client Project: Ash Pond Monitoring Wells
Report Date: 24-Sep-24

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24082414
Report Date: 24-Sep-24

Cooler Receipt Temp: 16.9 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 and Radium-228 analysis was performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power

Client Project: Ash Pond Monitoring Wells

Work Order: 24082414

Report Date: 24-Sep-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	12/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: City Water, Light & Power
Work Order: 24082414
Client Project: Ash Pond Monitoring Wells
Report Date: 24-Sep-24
Lab ID: 24082414-001
Client Sample ID: AP-3
Matrix: GROUNDWATER
Collection Date: 08/29/2024 10:01

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.63**	ft	1	08/29/2024 10:01	R352520
Depth to water	*	-5.00		**7.40**	ft	1	08/29/2024 10:01	R352520
Depth to water from measuring point	*	0		**9.95**	ft	1	08/29/2024 10:01	R352520
Elevation of groundwater surface	*	0		**525.30**	ft	1	08/29/2024 10:01	R352520
Measuring Point Elevation	*	0		**535.25**	ft	1	08/29/2024 10:01	R352520
Measuring Point Height Above Land Surface	*	0		**2.55**	ft	1	08/29/2024 10:01	R352520
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**13**	NTU	1	08/29/2024 10:01	R352520
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**66.1**	°F	1	08/29/2024 10:01	R352520
SW-846 9040B								
pH, Field	*	1.00		**6.20**		1	08/29/2024 10:01	R352520
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1210**	umhos/cm @25C	1	08/29/2024 10:01	R352520
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1170**	mg/L	1	08/30/2024 9:24	R352631
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	*	0.50		**ND**	mg/L	10	08/29/2024 18:42	R352440
Chloride	*	5.00		**55.9**	mg/L	10	08/29/2024 18:42	R352440
Sulfate	*	10.0		**554**	mg/L	10	08/29/2024 18:42	R352440
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.102**	mg/L	1	09/03/2024 16:40	227844
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	09/03/2024 16:40	227844
Boron	NELAP	0.0200		**14.6**	mg/L	1	09/03/2024 16:40	227844
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	09/03/2024 16:40	227844
Calcium	NELAP	0.100		**175**	mg/L	1	09/03/2024 16:40	227844
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	09/03/2024 16:40	227844
Cobalt	NELAP	0.0050		**0.0071**	mg/L	1	09/05/2024 15:52	227844
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	09/03/2024 16:40	227844
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	09/03/2024 16:40	227844
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	09/04/2024 2:12	227844
Arsenic	NELAP	0.0010		**0.0080**	mg/L	5	09/04/2024 2:12	227844
Lithium	*	0.0030		**0.0064**	mg/L	5	09/04/2024 2:12	227844
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	09/04/2024 2:12	227844
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	09/04/2024 2:12	227844
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/30/2024 14:05	227834
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/20/2024 0:00	R353640
Radium-228	*	0		**See Attached**	pci/L	1	09/20/2024 0:00	R353640

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24082414
Report Date: 24-Sep-24

Carrier: Tracy Carroll

Received By: PRS

Completed by: Amber Dilallo
On: 29-Aug-24

Reviewed by: Ellie Hopkins
On: 29-Aug-24

Pages to follow: Chain of custody 1 Extra pages included 12

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	16.9	
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐	
Chain of custody present?	Yes ☑	No ☐				
Chain of custody signed when relinquished and received?	Yes ☑	No ☐				
Chain of custody agrees with sample labels?	Yes ☑	No ☐				
Samples in proper container/bottle?	Yes ☑	No ☐				
Sample containers intact?	Yes ☑	No ☐				
Sufficient sample volume for indicated test?	Yes ☑	No ☐				
All samples received within holding time?	Yes ☑	No ☐				
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐			
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐				

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

pH strip #96651. - amberdilallo - 8/29/2024 1:06:16 PM

Print PDF

CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24082414

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 16.9 °C
Preserved in: ☐ LAB ☒ FIELD
FOR LAB USE ONLY
LAB NOTES: 96651 na 8/29

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Tracy Carroll

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers									INDICATE ANALYSIS REQUESTED												
				UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity								
	RW-3		Groundwater	1	2								✔	✔	✔	✔	✔	✔								
	AP-1		Groundwater	1	2								✔	✔	✔	✔	✔	✔								
	AP-2		Groundwater	1	2								✔	✔	✔	✔	✔	✔								
24082414-001	AP-3	8/29/24 1001	Groundwater	1	2								✔	✔	✔	✔	✔	✔								
	AP-4		Groundwater	1	2								✔	✔	✔	✔	✔	✔								
	AP-5		Groundwater	1	2								✔	✔	✔	✔	✔	✔								
	AP-6		Groundwater	1	2								✔	✔	✔	✔	✔	✔								
	AP-7		Groundwater	1	2								✔	✔	✔	✔	✔	✔								
	AP-8		Groundwater	1	2								✔	✔	✔	✔	✔	✔								
	AP-9		Groundwater	1	2								✔	✔	✔	✔	✔	✔								
	AP-10		Groundwater	1	2								✔	✔	✔	✔	✔	✔								

Relinquished By	Date/Time	Received By	Date/Time
Tracy Carroll	8/29/24 1154		8/29/24 1154

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

September 24, 2024

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 24082414

Dear Shelly Hennessy:

Order No.: 24090112

Summit Environmental Technologies, Inc. received 1 sample(s) on 9/3/2024 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Case Narrative

WO#: **24090112**
Date: **9/24/2024**

CLIENT: TEKLAB Inc,
Project: 24082414

WorkOrder Narrative:
24090112: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Sequence QC Notes:
LCS/LCSD-78638 Radium-228_DW(904.0): LCS/LCSD exhibited a high RPD, individually each LCS/LCSD meets the required criteria.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, In
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-448
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **24090112**
Date: **9/24/2024**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

Summit Environmental Technologies, Inc.
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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
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Workorder Sample Summary

WO#: **24090112**

24-Sep-24

CLIENT: TEKLAB Inc,
Project: 24082414

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24090112-001	24082414-001		8/29/2024 10:01:00 AM	9/3/2024 5:00:00 PM	Non-Potable Water

Summit Environmental Technologies, Inc.
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DATES REPORT

WO#: **24090112**

24-Sep-24

Client: TEKLAB Inc,

Project: 24082414

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24090112-001A	24082414-001	8/29/2024 10:01:00 AM	Non-Potable Water	Radium-226 (EPA 903.0)		9/17/2024 1:43:08 PM	9/23/2024 10:10:02 AM
				Radium-228 (EPA 904.0)		9/17/2024 1:43:08 PM	9/20/2024 2:09:34 PM

Original

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

Summit Environmental Technologies, Inc.
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Analytical Report

(consolidated)

WO#: **24090112**

Date Reported: **9/24/2024**

CLIENT: TEKLAB Inc,

Collection Date: 8/29/2024 10:01:00 AM

Project: 24082414

Lab ID: 24090112-001

Matrix: NON-POTABLE WATER

Client Sample ID: 24082414-001

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0500	1	9/23/2024 10:10:02 AM
Yield	1.00					1	9/23/2024 10:10:02 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.430	1	9/20/2024 2:09:34 PM
Yield	0.960					1	9/20/2024 2:09:34 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24090112**

24-Sep-24

Client: TEKLAB Inc,
Project: 24082414 **BatchID:** **78638**

Sample ID: **MB-78638** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193694**
Client ID: **PBW** Batch ID: **78638** TestNo: **E904.0** **E903-904** Analysis Date: **9/20/2024** SeqNo: **5243171**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	0.940			0	0						

Sample ID: **LCS-78638** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193694**
Client ID: **LCSW** Batch ID: **78638** TestNo: **E904.0** **E903-904** Analysis Date: **9/20/2024** SeqNo: **5243172**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	2.52	1.00	5.000	0	50.4	50	130				QLR
Yield	0.910			0	0						

Sample ID: **LCSD-78638** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193694**
Client ID: **LCSS02** Batch ID: **78638** TestNo: **E904.0** **E903-904** Analysis Date: **9/20/2024** SeqNo: **5243173**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.45	1.00	5.000	0	69.0	50	130	2.520	31.2	20	R
Yield	1.00			0	0			0.9100	9.42		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24090112**

24-Sep-24

Client: TEKLAB Inc,
Project: 24082414 **BatchID:** **78638**

Sample ID: **24082205-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193694**
Client ID: **BatchQC** Batch ID: **78638** TestNo: **E904.0** **E903-904** Analysis Date: **9/20/2024** SeqNo: **5243178**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Sample ID: **24082207-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193694**
Client ID: **BatchQC** Batch ID: **78638** TestNo: **E904.0** **E903-904** Analysis Date: **9/20/2024** SeqNo: **5243180**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

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QC SUMMARY REPORT

WO#: **24090112**

24-Sep-24

Client: TEKLAB Inc,
Project: 24082414 **BatchID:** **78638**

Sample ID: **MB-78638** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193700**
Client ID: **PBW** Batch ID: **78638** TestNo: **E903.0** **E903-904** Analysis Date: **9/23/2024** SeqNo: **5243274**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-78638** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193700**
Client ID: **LCSW** Batch ID: **78638** TestNo: **E903.0** **E903-904** Analysis Date: **9/23/2024** SeqNo: **5243275**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.26	1.00	5.000	0	85.2	70	130				

Sample ID: **LCSD-78638** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193700**
Client ID: **LCSS02** Batch ID: **78638** TestNo: **E903.0** **E903-904** Analysis Date: **9/23/2024** SeqNo: **5243276**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.63	1.00	5.000	0	92.6	70	130	4.260	8.32	20	

Sample ID: **24082205-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193700**
Client ID: **BatchQC** Batch ID: **78638** TestNo: **E903.0** **E903-904** Analysis Date: **9/23/2024** SeqNo: **5243281**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24090112**

24-Sep-24

Client: TEKLAB Inc,

Project: 24082414 **BatchID:** **78638**

Sample ID: **24082205-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193700**

Client ID: **BatchQC** Batch ID: **78638** TestNo: **E903.0** **E903-904** Analysis Date: **9/23/2024** SeqNo: **5243281**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Sample ID: **24082207-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193700**

Client ID: **BatchQC** Batch ID: **78638** TestNo: **E903.0** **E903-904** Analysis Date: **9/23/2024** SeqNo: **5243283**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

TEKLAB, INC. Chain of Custody

2409011 2

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: Client | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site.

Project# 24082414

Contact: Shelly Hennessy | Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT | Billing/PO: 36929 | Phone: (618) 344-1004 ext. 36

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228
	24082414-001	8/29/24 1001	HNO3	Groundwater	✔ cpm=37 pH=1
			Other	Aqueous	
			Other	Aqueous	
			Other	Aqueous	
			Other	Aqueous	
			Other	Aqueous	
			Other	Aqueous	
			Other	Aqueous	
			Other	Aqueous	
			Other	Aqueous	
			Other	Aqueous	

*Relinquished By	Date/Time	Received By	Date/Time
Owen Quale	8/29/24 1700	C.E	9/3/24 1700

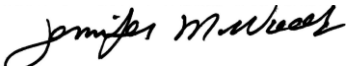
17.3-0.1=17.2
Fedex coder
4608
8/29/24

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24090112 RcptNo: 1

Logged by:	Anthony W. Britton	9/3/2024 5:00:00 PM	
Completed By:	Anthony W. Britton	9/4/2024 2:28:52 PM	
Reviewed By:	Jennifer Woolf	9/6/2024 3:01:49 PM	

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐
   No. 4608 Seal Date: 8/29/2024 Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	17.2	Good	Yes	4608	8/29/2024	

September 18, 2024

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: FGDS Landfill **WorkOrder:** 24080243

Dear Eric Staley:

TEKLAB, INC received 12 samples on 8/13/2024 2:27:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

Client: City Water, Light & Power
Work Order: 24080243
Client Project: FGDS Landfill
Report Date: 18-Sep-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	20
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 24080243

Client Project: FGDS Landfill **Report Date:** 18-Sep-24

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power
Work Order: 24080243

Client Project: FGDS Landfill
Report Date: 18-Sep-24

Qualifiers

# -	Unknown hydrocarbon
B -	Analyte detected in associated Method Blank
C -	RL shown is a Client Requested Quantitation Limit
E -	Value above quantitation range
H -	Holding times exceeded
I -	Associated internal standard was outside method criteria
J -	Analyte detected below quantitation limits
M -	Manual Integration used to determine area response
ND -	Not Detected at the Reporting Limit
R -	RPD outside accepted recovery limits
S -	Spike Recovery outside recovery limits
T -	TIC(Tentatively identified compound)
X -	Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 24080243
Client Project: FGDS Landfill
Report Date: 18-Sep-24

Cooler Receipt Temp: 12.1 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 & -228 analysis was performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power
Work Order: 24080243
Client Project: FGDS Landfill
Report Date: 18-Sep-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	12/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: City Water, Light & Power **Work Order:** 24080243

Client Project: FGDS Landfill **Report Date:** 18-Sep-24

Lab ID: 24080243-006 **Client Sample ID:** G120

Matrix: GROUNDWATER **Collection Date:** 08/13/2024 11:34

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**502.73**	ft	1	08/13/2024 11:34	R352006
Depth to water	*	-5.00		**17.65**	ft	1	08/13/2024 11:34	R352006
Depth to water from measuring point	*	0		**17.65**	ft	1	08/13/2024 11:34	R352006
Elevation of groundwater surface	*	0		**535.45**	ft	1	08/13/2024 11:34	R352006
Measuring Point Elevation	*	0		**553.10**	ft	1	08/13/2024 11:34	R352006
Measuring Point Height Above Land Surface	*	0		**0**	ft	1	08/13/2024 11:34	R352006
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**7.6**	NTU	1	08/13/2024 11:34	R352006
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**65.3**	°F	1	08/13/2024 11:34	R352006
SW-846 9040B								
pH, Field	*	1.00		**6.81**		1	08/13/2024 11:34	R352006
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1880**	umhos/cm @25C	1	08/13/2024 11:34	R352006
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1450**	mg/L	1	08/16/2024 12:18	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**534**	mg/L	20	08/20/2024 17:24	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.16**	mg/L	1	08/19/2024 10:36	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**41**	mg/L	1	08/20/2024 17:06	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.614**	mg/L	1	08/15/2024 16:04	227124
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/15/2024 16:04	227124
Boron	NELAP	0.0200		**7.71**	mg/L	1	08/15/2024 16:04	227124
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/15/2024 16:04	227124
Calcium	NELAP	0.100		**240**	mg/L	1	08/15/2024 16:04	227124
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/15/2024 16:04	227124
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/15/2024 16:04	227124
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/15/2024 16:04	227124
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/15/2024 16:04	227124
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:45	227124
Arsenic	NELAP	0.0010		**0.0104**	mg/L	5	08/15/2024 14:45	227124
Lithium	*	0.0030		**0.0081**	mg/L	5	08/15/2024 14:45	227124
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:45	227124
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/15/2024 14:45	227124
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/15/2024 16:35	227118
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/13/2024 0:00	R353302
Radium-228	*	0		**See Attached**	pci/L	1	09/13/2024 0:00	R353302

Client: City Water, Light & Power **Work Order:** 24080243

Client Project: FGDS Landfill **Report Date:** 18-Sep-24

Lab ID: 24080243-009 **Client Sample ID:** AW-1

Matrix: GROUNDWATER **Collection Date:** 08/13/2024 9:51

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**500.79**	ft	1	08/13/2024 9:51	R352006
Depth to water	*	-5.00		**12.82**	ft	1	08/13/2024 9:51	R352006
Depth to water from measuring point	*	0		**15.57**	ft	1	08/13/2024 9:51	R352006
Elevation of groundwater surface	*	0		**540.03**	ft	1	08/13/2024 9:51	R352006
Measuring Point Elevation	*	0		**555.60**	ft	1	08/13/2024 9:51	R352006
Measuring Point Height Above Land Surface	*	0		**2.75**	ft	1	08/13/2024 9:51	R352006
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**51**	NTU	1	08/13/2024 9:51	R352006
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**62.5**	°F	1	08/13/2024 9:51	R352006
SW-846 9040B								
pH, Field	*	1.00		**6.58**		1	08/13/2024 9:51	R352006
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1420**	umhos/cm @25C	1	08/13/2024 9:51	R352006
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1190**	mg/L	1	08/16/2024 12:19	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**406**	mg/L	20	08/20/2024 17:48	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**< 0.10**	mg/L	1	08/19/2024 10:51	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**41**	mg/L	1	08/20/2024 17:43	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.602**	mg/L	1	08/15/2024 16:06	227124
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/15/2024 16:06	227124
Boron	NELAP	0.0200		**9.19**	mg/L	1	08/15/2024 16:06	227124
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/15/2024 16:06	227124
Calcium	NELAP	0.100		**186**	mg/L	1	08/15/2024 16:06	227124
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/15/2024 16:06	227124
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/15/2024 16:06	227124
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/15/2024 16:06	227124
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/15/2024 16:06	227124
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**0.0016**	mg/L	5	08/15/2024 15:47	227124
Arsenic	NELAP	0.0010		**0.129**	mg/L	5	08/15/2024 15:47	227124
Lithium	*	0.0030		**0.0145**	mg/L	5	08/15/2024 15:47	227124
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 15:47	227124
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/15/2024 15:47	227124
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/15/2024 16:42	227118
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/13/2024 0:00	R353302
Radium-228	*	0		**See Attached**	pci/L	1	09/13/2024 0:00	R353302

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: FGDS Landfill

Work Order: 24080243
Report Date: 18-Sep-24

Carrier: Justin Colp

Received By: PRS

Completed by: Amber Dilallo
On: 13-Aug-24

Reviewed by: Ellie Hopkins
On: 13-Aug-24

Pages to follow: Chain of custody 4 Extra pages included 40

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	12.1
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐			
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐		
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐			

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

Samples were received on 8/12/24 at 1635 on ice [12.1C - LTG#9]. pH strip #96651. - amberdilallo - 8/13/2024 8:26:48 AM

Samples were received on 8/13/24 at 1427 on ice [3.7C - LTG#5]. pH strip #96651. - amberdilallo - 8/13/2024 3:27:12 PM

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24080243

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 12.1 °C UC9
Preserved in: [ ] LAB [X] FIELD FOR LAB USE ONLY
LAB NOTES: pH/Gucsi
PS 8/13

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring 4Q2023-3Q2025
RW-3 report data from Ash Pond sampling event. 24080242-001

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME
Justin Colp

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other ____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24080243-001	R101	8-12-24 1132	Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	G110		Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	R111	8.12.24 1315	Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	G112		Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	G113	8-12-24 1035	Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	G120		Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	G121		Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	G122		Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AW-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AW-2	8.12.24 1123	Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	RW-3	8.12.24 1018	Groundwater	0	0								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
J-Colp	8.12.24 1635		8/12/24 1635

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24080243

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power

Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building

City/State/Zip: Springfield IL 62712

Contact: Eric Staley Phone: (217) 757-8610

Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No

Are these samples known to be hazardous? ☐ Yes ☑ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C

Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY

LAB NOTES:

*new well 3Q2024 KH 8/5/24

Client Comments:

*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring 4Q2023-3Q2025

PROJECT NAME/NUMBER	SAMPLE COLLECTOR'S NAME
FGDS Landfill	J. Colp

RESULTS REQUESTED

☑ Standard ☐ 1-2 Day (100% Surcharge)

☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers									INDICATE ANALYSIS REQUESTED											
				UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity							
24080243-12	P07D *	8.12.24 1221	Groundwater	1	2								✔	✔	✔	✔	✔	✔							
			Groundwater																					
			Groundwater																					
			Groundwater																					
			Groundwater																					
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			Groundwater																					
			Groundwater																					
			Groundwater																					
			Groundwater																					
			Groundwater																					

Relinquished By	Date/Time	Received By	Date/Time
J. Colp	8.12.24 1635	Paul Zettler	8/12/24 1635

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24080243

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 3.7 °C UC5
Preserved in: ☐ LAB ☒ FIELD
LAB NOTES: PW96057

FOR LAB USE ONLY
LH 8/13/24

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring 4Q2023-3Q2025
RW-3 report data from Ash Pond sampling event. 24080242-001

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers									INDICATE ANALYSIS REQUESTED												
				UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity								
24080243-001	R101		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
002	G110	8-13-24 1215	Groundwater	1	2								✓	✓	✓	✓	✓	✓								
003	R111		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
004	G112	8.13.24 0933	Groundwater	1	2								✓	✓	✓	✓	✓	✓								
005	G113		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
006	G120	8.13.24 1134	Groundwater	1	2								✓	✓	✓	✓	✓	✓								
007	G121	8.13.24 1041	Groundwater	1	2								✓	✓	✓	✓	✓	✓								
008	G122	8.13.24 1014	Groundwater	1	2								✓	✓	✓	✓	✓	✓								
009	AW-1	8-13-24 951	Groundwater	1	2								✓	✓	✓	✓	✓	✓								
010	AW-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
011	RW-3		Groundwater	0	0								✓	✓	✓	✓	✓	✓								

Relinquished By	Date/Time	Received By	Date/Time
	8-13-24 1427		8/13/24 1427

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24080243

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:
*new well 3Q2024 KTH 8/5/24

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring 4Q2023-3Q2025

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24080243-012	P07D *		Groundwater	1	2								✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
	8-13-24 14:27		8/13/24 14:27

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Field Data Sheet

Project Name: CWLP- FGDS Landfill **Monitoring Point:** G120

Project Location: Springfield, IL

W.O. Number (s): 24080243 **Date (s):** 8/13/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 74 °F Wind Direction: N S E (W) (circle two if needed)

Precipitation: (None) Light Heavy Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/13/2024 11:14

Static Water Level: 17.65 feet below TOC

Total Depth: 50.37 feet below TOC

Water Column: 32.72 feet

Purging Activities

Purged By: Justin Colp Purge Date: 8/13/2024

Purge Method: Submersible Pump Well Diameter: 2"

Purge Volume Calculation (L): 32.72 ft. x 50.37 = 1.11 L x 3 Vol. = 3.33 L **Based on 3 water volumes in 3/8" tubing.*

Actual Purge Volume (L): 3.5

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:15	0.0	184	purge start time						
11:22	1.3	↓	6.85	1,881	63.8	2.42	-96.2	8.06	
11:25	1.9		6.81	1,881	62.5	0.93	-99.6	6.55	
11:28	2.4		6.81	1,881	63.4	0.79	-104.9	6.21	
11:31	3.0		6.81	1,885	64.0	0.75	-109.0	6.76	
11:34	3.5		6.81	1,883	65.3	0.73	-112.1	7.61	

Sampling Activities

Sampled By: Justin Colp Sample Date/Time: 8/13/2024 11:34

Sample Method: Low-Flow Sample Equipment: Submersible Pump

Sample Parameters: 6.81 pH 1,883 Spec. Cond. 65.3 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 18.79 feet below TOC Drawdown: 1.14 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Justin Colp **Date:** 8/13/2024

Field Data Sheet

Project Name: CWLP- FGDS Landfill
Monitoring Point: AW-1
Project Location: Springfield, IL
W.O. Number (s): 24080243
Date (s): 8/13/2024

Field Team Members

Name: Brett Gillihan — Affiliation: TekLab, Inc.
Name: — Affiliation:

Weather Conditions

Temp: 70 °F — Wind Direction: N S E (W) (circle two if needed)
Precipitation: (None) Light Heavy — Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/13/2024 9:21
Static Water Level: 15.57 feet below TOC
Total Depth: 54.81 feet below TOC
Water Column: 39.24 feet

Purging Activities

Purged By: Brett Gillihan — Purge Date: 8/13/2024
Purge Method: Peristaltic Pump — Well Diameter: 2"
Purge Volume Calculation (L): 39.24 ft. x 54.81 = 1.21 L x 3 Vol. = 3.63 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 4.6
Physical appearance of purge water: Cloudy — Odor: None — Color: Light brown

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:21	0.0	150	purge start time						
9:39	2.8	↓	6.71	1,390	63.0	3.14	-24.8	57.38	
9:42	3.3		6.68	1,394	62.5	2.60	-50.0	57.42	
9:45	3.7		6.68	1,390	62.3	2.46	-49.4	57.79	
9:48	4.2		6.66	1,396	62.6	2.45	-56.3	51.84	
9:51	4.6		6.58	1,417	62.5	2.36	-69.5	51.12	

Sampling Activities

Sampled By: Brett Gillihan — Sample Date/Time: 8/13/2024 9:51
Sample Method: Low-Flow — Sample Equipment: Peristaltic Pump
Sample Parameters: 6.58 pH — 1,417 Spec. Cond. — 62.5 Temp
Field Filtered: Yes — Filter Type: Inline Disposable
Water Level: 17.34 feet below TOC — Drawdown: 1.77 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Brett Gillihan — **Date:** 8/13/2024

Site Samping Event: FGDS Landfill
LIMS Workorder: 24080243
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- 3Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 45985 Technician(s): Brett Gillihan Date: 8/12/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC240612A	4.01	8/12/24 9:59
7.0 Buffer	WC240307F	6.99	8/12/24 9:54
10.0 Buffer	WC240625B	9.99	8/12/24 10:02
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	98627	1410	8/12/24 10:09

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.4	8/12/24 10:15
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-BG	LCS	8/12/24 10:19	22.4	7.01	1,410			
CCV-1-BG	CCV	8/12/24 15:30	23.6	7.04	1,416			

Comments:

Field Meter ID: Pine 45985 Technician(s): Brett Gillihan Date: 8/13/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC240612A	4.02	8/13/24 8:58
7.0 Buffer	WC240307F	7.00	8/13/24 8:54
10.0 Buffer	WC240625B	10.01	8/13/24 9:01
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	98627	1412	8/13/24 9:05

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.9	8/13/24 9:15
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-BG	LCS	8/13/24 9:20	23.5	7.01	1,411			
CCV-2-BG	CCV	8/13/24 12:19	24.5	7.02	1,420			

Comments:

Site Samping Event: FGDS Landfill
LIMS Workorder: 24080243
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- 3Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 223344 Technician(s): Tracy Carroll Date: 8/12/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC240612A	4.01	8/12/24 10:31
7.0 Buffer	WC240307F	7.01	8/12/24 10:23
10.0 Buffer	WC240625B	10.00	8/12/24 10:39
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	98627	1412	8/12/24 10:39

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-TC	LCS	8/12/24 10:44	24.6	7.03	1,410			
CCV-1-TC	CCV	8/12/24 14:28	25.2	7.08	1,453			

Comments:

Field Meter ID: Pine 223344 Technician(s): Tracy Carroll Date: 8/13/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC240612A	4.00	8/13/24 9:38
7.0 Buffer	WC240307F	7.01	8/13/24 9:35
10.0 Buffer	WC240625B	10.00	8/13/24 9:41
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	98627	1412	8/13/24 9:37

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-TC	LCS	8/13/24 9:42	21	7.02	1,413			
CCV-2-TC	CCV	8/13/24 14:18	22.5	7.06	1,422			

Comments:

Site Samping Event: FGDS Landfill
LIMS Workorder: 24080243
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- 3Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 218074 Technician(s): justin colp Date: 8/12/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc240612a	4.00	8/12/24 9:33
7.0 Buffer	wc240307f	6.99	8/12/24 9:30
10.0 Buffer	wc240625b	9.99	8/12/24 9:36
LCS/CCV (7.0 Buffer)	wc231207a		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	98627	1413	8/12/24 9:39

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.41	8/12/24 9:42
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-JC	LCS	8/12/24 9:45	23.2	6.99	1,413	0.41		
CCV-1-JC	CCV	8/12/24 14:44	24.49	7.01	1,427	0.47		

Comments:

Field Meter ID: Pine 218074 Technician(s): justin colp Date: 8/13/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc240612a	3.99	8/13/24 8:55
7.0 Buffer	wc240307f	7.00	8/13/24 8:57
10.0 Buffer	wc240625b	10.00	8/13/24 8:59
LCS/CCV (7.0 Buffer)	wc231207a		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	98627	1410	8/13/24 9:04

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.43	8/13/24 9:07
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-JC	LCS	8/13/24 9:10	23.1	7.00	1,410	0.43		
CCV-2-JC	CCV	8/13/24 11:36	24.8	7.02	1,416	0.47		

Comments:

Summit Environmental Technologies, Inc.
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September 17, 2024

Elizabeth Hurley
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 24080243

Dear Elizabeth Hurley:

Order No.: 24081420

Summit Environmental Technologies, Inc. received 12 sample(s) on 8/19/2024 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Case Narrative

WO#: **24081420**
Date: **9/17/2024**

CLIENT: TEKLAB Inc,
Project: 24080243

WorkOrder Narrative:
24081420: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, In
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-448
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **24081420**
Date: **9/17/2024**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Workorder Sample Summary

WO#: **24081420**

17-Sep-24

CLIENT: TEKLAB Inc,
Project: 24080243

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24081420-001	24080243-001		8/12/2024 11:32:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081420-002	24080243-002		8/13/2024 12:15:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081420-003	24080243-003		8/12/2024 1:15:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081420-004	24080243-004		8/13/2024 9:33:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081420-005	24080243-005		8/12/2024 10:35:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081420-006	24080243-006		8/13/2024 11:34:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081420-007	24080243-007		8/13/2024 10:41:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081420-008	24080243-008		8/13/2024 10:14:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081420-009	24080243-009		8/13/2024 9:51:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081420-010	24080243-010		8/12/2024 11:23:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081420-011	24080243-011		8/12/2024 10:18:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081420-012	24080243-012		8/12/2024 12:21:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water

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DATES REPORT

WO#: **24081420**

17-Sep-24

Client: TEKLAB Inc,

Project: 24080243

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24081420-001A	24080243-001	8/12/2024 11:32:00 AM	Non-Potable Water	Combined Radium (EPA903+904)			9/17/2024 12:00:15 PM
				Radium-226 (EPA 903.0)		9/10/2024 2:19:00 PM	9/16/2024 11:23:00 AM
				Radium-228 (EPA 904.0)		9/10/2024 2:19:00 PM	9/13/2024 2:18:00 PM
24081420-002A	24080243-002	8/13/2024 12:15:00 PM		Combined Radium (EPA903+904)			9/17/2024 12:00:15 PM
				Radium-226 (EPA 903.0)		9/10/2024 2:19:00 PM	9/16/2024 11:23:00 AM
				Radium-228 (EPA 904.0)		9/10/2024 2:19:00 PM	9/13/2024 2:18:00 PM
24081420-003A	24080243-003	8/12/2024 1:15:00 PM		Combined Radium (EPA903+904)			9/17/2024 12:00:15 PM
				Radium-226 (EPA 903.0)		9/10/2024 2:19:00 PM	9/16/2024 11:23:00 AM
				Radium-228 (EPA 904.0)		9/10/2024 2:19:00 PM	9/13/2024 2:18:00 PM
24081420-004A	24080243-004	8/13/2024 9:33:00 AM		Combined Radium (EPA903+904)			9/17/2024 12:00:15 PM
				Radium-226 (EPA 903.0)		9/10/2024 2:19:00 PM	9/16/2024 11:23:00 AM
				Radium-228 (EPA 904.0)		9/10/2024 2:19:00 PM	9/13/2024 2:18:00 PM
24081420-005A	24080243-005	8/12/2024 10:35:00 AM		Combined Radium (EPA903+904)			9/17/2024 12:00:15 PM
				Radium-226 (EPA 903.0)		9/10/2024 2:19:00 PM	9/16/2024 11:23:00 AM
				Radium-228 (EPA 904.0)		9/10/2024 2:19:00 PM	9/13/2024 2:18:00 PM
24081420-006A	24080243-006	8/13/2024 11:34:00 AM		Combined Radium (EPA903+904)			9/17/2024 12:00:15 PM
				Radium-226 (EPA 903.0)		9/10/2024 2:19:00 PM	9/16/2024 11:23:00 AM
				Radium-228 (EPA 904.0)		9/10/2024 2:19:00 PM	9/13/2024 2:18:00 PM
24081420-007A	24080243-007	8/13/2024 10:41:00 AM		Combined Radium (EPA903+904)			9/17/2024 12:00:15 PM
				Radium-226 (EPA 903.0)		9/10/2024 2:19:00 PM	9/16/2024 11:23:00 AM
				Radium-228 (EPA 904.0)		9/10/2024 2:19:00 PM	9/13/2024 2:18:00 PM
24081420-008A	24080243-008	8/13/2024 10:14:00 AM		Combined Radium (EPA903+904)			9/17/2024 12:00:15 PM
				Radium-226 (EPA 903.0)		9/10/2024 2:19:00 PM	9/16/2024 11:23:00 AM

Original

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DATES REPORT

WO#: **24081420**

17-Sep-24

Client: TEKLAB Inc,

Project: 24080243

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24081420-008A	24080243-008	8/13/2024 10:14:00 AM	Non-Potable Water	Radium-228 (EPA 904.0)		9/10/2024 2:19:00 PM	9/13/2024 2:18:00 PM
24081420-009A	24080243-009	8/13/2024 9:51:00 AM		Combined Radium (EPA903+904)			9/17/2024 12:00:15 PM
				Radium-226 (EPA 903.0)		9/10/2024 2:19:00 PM	9/16/2024 11:23:00 AM
				Radium-228 (EPA 904.0)		9/10/2024 2:19:00 PM	9/13/2024 2:18:00 PM
24081420-010A	24080243-010	8/12/2024 11:23:00 AM		Combined Radium (EPA903+904)			9/17/2024 12:00:15 PM
				Radium-226 (EPA 903.0)		9/10/2024 2:19:00 PM	9/16/2024 11:23:00 AM
				Radium-228 (EPA 904.0)		9/10/2024 2:19:00 PM	9/13/2024 2:18:00 PM
24081420-011A	24080243-011	8/12/2024 10:18:00 AM		Combined Radium (EPA903+904)			9/17/2024 12:00:15 PM
				Radium-226 (EPA 903.0)		9/10/2024 2:19:00 PM	9/16/2024 11:23:00 AM
				Radium-228 (EPA 904.0)		9/10/2024 2:19:00 PM	9/13/2024 2:18:00 PM
24081420-012A	24080243-012	8/12/2024 12:21:00 PM		Combined Radium (EPA903+904)			9/17/2024 12:00:15 PM
				Radium-226 (EPA 903.0)		9/10/2024 2:19:00 PM	9/16/2024 11:23:00 AM
				Radium-228 (EPA 904.0)		9/10/2024 2:19:00 PM	9/13/2024 2:18:00 PM

Original

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Analytical Report

(consolidated)

WO#: **24081420**

Date Reported: **9/17/2024**

CLIENT: TEKLAB Inc,

Collection Date: 8/13/2024 11:34:00 AM

Project: 24080243

Lab ID: 24081420-006

Matrix: NON-POTABLE WATER

Client Sample ID: 24080243-006

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**		Analyst: **HDJ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.550	1	9/17/2024 12:00:15 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.110	1	9/16/2024 11:23:00 AM
Yield	1.00					1	9/16/2024 11:23:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	1.22	1.00		pCi/L	± 0.440	1	9/13/2024 2:18:00 PM
Yield	1.00					1	9/13/2024 2:18:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC. Analytical Laboratories

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Analytical Report

(consolidated)

WO#: **24081420**

Date Reported: **9/17/2024**

CLIENT: TEKLAB Inc,

Collection Date: 8/13/2024 9:51:00 AM

Project: 24080243

Lab ID: 24081420-009

Matrix: NON-POTABLE WATER

Client Sample ID: 24080243-009

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**		Analyst: **HDJ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.493	1	9/17/2024 12:00:15 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **HDJ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.110	1	9/16/2024 11:23:00 AM
Yield	1.00					1	9/16/2024 11:23:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **HDJ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.383	1	9/13/2024 2:18:00 PM
Yield	1.00					1	9/13/2024 2:18:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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QC SUMMARY REPORT

WO#: **24081420**

17-Sep-24

Client: TEKLAB Inc,
Project: 24080243 **BatchID:** **78532**

Sample ID: **MB-78532**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/10/2024**	RunNo: **193266**
Client ID: **PBW**	Batch ID: **78532**	TestNo: **E904.0**	**E903-904**	Analysis Date: **9/13/2024**	SeqNo: **5230723**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-78532**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/10/2024**	RunNo: **193266**
Client ID: **LCSW**	Batch ID: **78532**	TestNo: **E904.0**	**E903-904**	Analysis Date: **9/13/2024**	SeqNo: **5230724**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.26	1.00	5.000	0	65.2	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-78532**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/10/2024**	RunNo: **193266**
Client ID: **LCSS02**	Batch ID: **78532**	TestNo: **E904.0**	**E903-904**	Analysis Date: **9/13/2024**	SeqNo: **5230725**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.71	1.00	5.000	0	74.2	50	130	3.259	12.9	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **24081420**

17-Sep-24

Client: TEKLAB Inc,

Project: 24080243 **BatchID:** **78532**

Sample ID: **24081891-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/10/2024** RunNo: **193266**

Client ID: **BatchQC** Batch ID: **78532** TestNo: **E904.0** **E903-904** Analysis Date: **9/13/2024** SeqNo: **5230761**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24081420**

17-Sep-24

Client: TEKLAB Inc,
Project: 24080243 **BatchID:** **78532**

Sample ID: **MB-78532**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/10/2024**	RunNo: **193273**
Client ID: **PBW**	Batch ID: **78532**	TestNo: **E903.0**	**E903-904**	Analysis Date: **9/16/2024**	SeqNo: **5230910**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-78532**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/10/2024**	RunNo: **193273**
Client ID: **LCSW**	Batch ID: **78532**	TestNo: **E903.0**	**E903-904**	Analysis Date: **9/16/2024**	SeqNo: **5230911**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.33	1.00	5.000	0	86.7	70	130				

Sample ID: **LCSD-78532**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/10/2024**	RunNo: **193273**
Client ID: **LCSS02**	Batch ID: **78532**	TestNo: **E903.0**	**E903-904**	Analysis Date: **9/16/2024**	SeqNo: **5230912**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.53	1.00	5.000	0	90.7	70	130	4.334	4.53	20	

Sample ID: **24081891-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **9/10/2024**	RunNo: **193273**
Client ID: **BatchQC**	Batch ID: **78532**	TestNo: **E903.0**	**E903-904**	Analysis Date: **9/16/2024**	SeqNo: **5230934**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24081420**

17-Sep-24

Client: TEKLAB Inc,
Project: 24080243 **BatchID:** **78532**

Sample ID: **24081891-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/10/2024** RunNo: **193273**
Client ID: **BatchQC** Batch ID: **78532** TestNo: **E903.0** **E903-904** Analysis Date: **9/16/2024** SeqNo: **5230934**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Sample ID: **24081894-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/10/2024** RunNo: **193273**
Client ID: **BatchQC** Batch ID: **78532** TestNo: **E903.0** **E903-904** Analysis Date: **9/16/2024** SeqNo: **5230936**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

24080420

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☒ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: Sampler: Teklab, Inc. QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Ra226, Ra228 and Combinded Radium per your usual methods.
Changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site. Report 24080243-011 from 24080242-001. *

Project# 24080243

Contact: Shelly Hennessy Email: shennessy@teklabinc.com
Requested Due Date: Standard TAT Billing/PO: 36828 Phone: (618) 344-1004 ext. 36

no containers shipped for 24080243-011 SAH 8/14/24

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228	Radium 226	Radium 228										
	24080243-001	8/12/24 1132	HNO3	Groundwater	✔	✔	✔	plt	1		cpm	14					
	24080243-002	8/13/24 1215	HNO3	Groundwater	✔	✔	✔		1			19					
	24080243-003	8/12/24 1315	HNO3	Groundwater	✔	✔	✔		1			56					
	24080243-004	8/13/24 0933	HNO3	Groundwater	✔	✔	✔		1			37					
	24080243-005	8/12/24 1035	HNO3	Groundwater	✔	✔	✔		1			26					
	24080243-006	8/13/24 1134	HNO3	Groundwater	✔	✔	✔		1			18					
	24080243-007	8/13/24 1041	HNO3	Groundwater	✔	✔	✔		1			30					
	24080243-008	8/13/24 1014	HNO3	Groundwater	✔	✔	✔		1			6					
	24080243-009	8/13/24 0951	HNO3	Groundwater	✔	✔	✔		1			24					
	24080243-010	8/12/24 1123	HNO3	Groundwater	✔	✔	✔	↓	1			32					
	24080243-011 *	8/12/24 1018	HNO3	Groundwater	✔	✔	✔		1								

21.6 - 0.1 = 21.5, Fedex Cooler

*Relinquished By	Date/Time	Received By	Date/Time
Amber Duvall	8/13/24 1700	Anthony Buttons AUG 19 2024	1230

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: Teklab, Inc. | QC Level: 2

Project# 24080243

Comments: **Please Issue reports and invoices via email only**
Please analyze for Ra226, Ra228 and Combinded Radium per your usual methods.
Changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site. Report 24080243-011 from 24080242-001.

Contact: Shelly Hennessy | Email: shennessy@teklabinc.com
Requested Due Date: Standard TAT | Billing/PO: 36828 | Phone: (618) 344-1004 ext. 36

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228	Radium 226	Radium 228									
	24080243-012	8/12/24 1221	HNO3	Groundwater	✔	✔	✔	pH	1	12=Cpm						
			HNO3	Groundwater												
			HNO3	Groundwater												
			HNO3	Groundwater												
			HNO3	Groundwater												
			HNO3	Groundwater												
			HNO3	Groundwater												
			HNO3	Groundwater												
			HNO3	Groundwater												
			HNO3	Groundwater												

21.6 - 0.1 = 21.5, Fedex Coder

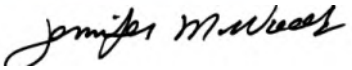
*Relinquished By	Date/Time	Received By	Date/Time
Shelby DeWalls	8/13/24 1700	Anthony Burton	AUG 19 2024 1230

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24081420 RcptNo: 1

Logged by:	Anthony W. Britton	8/19/2024 12:30:00 PM	
Completed By:	Anthony W. Britton	8/20/2024 1:40:48 PM	
Reviewed By:	Jennifer Woolf	8/20/2024 7:57:52 PM	

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☑
   No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	21.5	Good	Not Present			

November 2024 Laboratory Analytical Report

December 06, 2024

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 24110120

Dear Eric Staley:

TEKLAB, INC received 20 samples on 11/13/2024 3:45:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24110120
Report Date: 06-Dec-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	27
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 24110120

Client Project: Ash Pond Monitoring Wells **Report Date:** 06-Dec-24

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power
Work Order: 24110120

Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24110120
Report Date: 06-Dec-24

Cooler Receipt Temp: 10.9 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 & -228 analysis was performed by Summit Environmental Technologies. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power

Client Project: Ash Pond Monitoring Wells

Work Order: 24110120

Report Date: 06-Dec-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	12/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: City Water, Light & Power **Work Order:** 24110120

Client Project: Ash Pond Monitoring Wells **Report Date:** 06-Dec-24

Lab ID: 24110120-001 **Client Sample ID:** RW-3

Matrix: GROUNDWATER **Collection Date:** 11/11/2024 11:03

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	11/11/2024 11:03	R356375
Depth to water	*	-5.00		**8.75**	ft	1	11/11/2024 11:03	R356375
Depth to water from measuring point	*	0		**11.45**	ft	1	11/11/2024 11:03	R356375
Elevation of groundwater surface	*	0		**528.05**	ft	1	11/11/2024 11:03	R356375
Measuring Point Elevation	*	0		**539.50**	ft	1	11/11/2024 11:03	R356375
Measuring Point Height Above Land Surface	*	0		**2.70**	ft	1	11/11/2024 11:03	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**48**	NTU	1	11/11/2024 11:03	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.8**	°F	1	11/11/2024 11:03	R356375
SW-846 9040B								
pH, Field	*	1.00		**7.13**		1	11/11/2024 11:03	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**531**	µmhos/cm @25C	1	11/11/2024 11:03	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**470**	mg/L	2.5	11/14/2024 12:11	R356260
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/13/2024 17:09	R355975
Chloride	NELAP	5.00		**25.1**	mg/L	10	11/13/2024 17:09	R355975
Sulfate	NELAP	10.0		**ND**	mg/L	10	11/13/2024 17:09	R355975
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.180**	mg/L	1	11/12/2024 11:03	231044
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/12/2024 11:03	231044
Boron	NELAP	0.0200		**0.137**	mg/L	1	11/12/2024 11:03	231044
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2024 11:03	231044
Calcium	NELAP	0.100		**67.2**	mg/L	1	11/12/2024 11:03	231044
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 11:03	231044
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 11:03	231044
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2024 11:03	231044
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/12/2024 11:03	231044
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2024 22:11	231044
Arsenic	NELAP	0.0010		**0.214**	mg/L	5	11/14/2024 0:51	231044
Lithium	*	0.0030		**0.0047**	mg/L	5	11/14/2024 17:29	231044
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/14/2024 0:51	231044
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/14/2024 17:29	231044
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/13/2024 17:09	231083
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163

Client: City Water, Light & Power **Work Order:** 24110120

Client Project: Ash Pond Monitoring Wells **Report Date:** 06-Dec-24

Lab ID: 24110120-002 **Client Sample ID:** AP-1

Matrix: GROUNDWATER **Collection Date:** 11/11/2024 11:44

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**504.29**	ft	1	11/11/2024 11:44	R356375
Depth to water	*	-5.00		**8.12**	ft	1	11/11/2024 11:44	R356375
Depth to water from measuring point	*	0		**10.39**	ft	1	11/11/2024 11:44	R356375
Elevation of groundwater surface	*	0		**524.98**	ft	1	11/11/2024 11:44	R356375
Measuring Point Elevation	*	0		**535.37**	ft	1	11/11/2024 11:44	R356375
Measuring Point Height Above Land Surface	*	0		**2.27**	ft	1	11/11/2024 11:44	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**13**	NTU	1	11/11/2024 11:44	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.2**	°F	1	11/11/2024 11:44	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.54**		1	11/11/2024 11:44	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1380**	µmhos/cm @25C	1	11/11/2024 11:44	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1640**	mg/L	2.5	11/14/2024 12:17	R356260
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/13/2024 17:20	R355975
Chloride	NELAP	5.00		**52.1**	mg/L	10	11/13/2024 17:20	R355975
Sulfate	NELAP	10.0		**849**	mg/L	10	11/13/2024 17:20	R355975
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.269**	mg/L	1	11/12/2024 11:05	231044
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/12/2024 11:05	231044
Boron	NELAP	0.200		**23.6**	mg/L	10	11/14/2024 9:56	231044
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2024 11:05	231044
Calcium	NELAP	0.100		**237**	mg/L	1	11/12/2024 11:05	231044
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 11:05	231044
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 11:05	231044
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2024 11:05	231044
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/12/2024 11:05	231044
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2024 22:45	231044
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	11/14/2024 0:56	231044
Lithium	*	0.0030		**0.0094**	mg/L	5	11/14/2024 17:35	231044
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/14/2024 0:56	231044
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/14/2024 17:35	231044
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/13/2024 17:22	231083
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163

Client: City Water, Light & Power **Work Order:** 24110120

Client Project: Ash Pond Monitoring Wells **Report Date:** 06-Dec-24

Lab ID: 24110120-003 **Client Sample ID:** AP-2

Matrix: GROUNDWATER **Collection Date:** 11/11/2024 12:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.77**	ft	1	11/11/2024 12:21	R356375
Depth to water	*	-5.00		**4.04**	ft	1	11/11/2024 12:21	R356375
Depth to water from measuring point	*	0		**6.54**	ft	1	11/11/2024 12:21	R356375
Elevation of groundwater surface	*	0		**529.56**	ft	1	11/11/2024 12:21	R356375
Measuring Point Elevation	*	0		**536.10**	ft	1	11/11/2024 12:21	R356375
Measuring Point Height Above Land Surface	*	0		**2.50**	ft	1	11/11/2024 12:21	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**6.0**	NTU	1	11/11/2024 12:21	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.3**	°F	1	11/11/2024 12:21	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.41**		1	11/11/2024 12:21	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1140**	µmhos/cm @25C	1	11/11/2024 12:21	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1160**	mg/L	2.5	11/14/2024 12:18	R356260
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/13/2024 17:32	R355975
Chloride	NELAP	5.00		**35.1**	mg/L	10	11/13/2024 17:32	R355975
Sulfate	NELAP	10.0		**440**	mg/L	10	11/13/2024 17:32	R355975
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0727**	mg/L	1	11/12/2024 11:06	231044
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/12/2024 11:06	231044
Boron	NELAP	0.0200		**3.52**	mg/L	1	11/12/2024 11:06	231044
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2024 11:06	231044
Calcium	NELAP	0.100		**222**	mg/L	1	11/12/2024 11:06	231044
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 11:06	231044
Cobalt	NELAP	0.0050		**0.0085**	mg/L	1	11/12/2024 11:06	231044
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2024 11:06	231044
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/12/2024 11:06	231044
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2024 22:49	231044
Arsenic	NELAP	0.0010		**0.0016**	mg/L	5	11/14/2024 1:58	231044
Lithium	*	0.0030		**0.0068**	mg/L	5	11/14/2024 17:40	231044
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/14/2024 1:58	231044
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/14/2024 17:40	231044
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/13/2024 17:24	231083
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163

Client: City Water, Light & Power **Work Order:** 24110120

Client Project: Ash Pond Monitoring Wells **Report Date:** 06-Dec-24

Lab ID: 24110120-004 **Client Sample ID:** AP-3

Matrix: GROUNDWATER **Collection Date:** 11/11/2024 12:55

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.45**	ft	1	11/11/2024 12:55	R356375
Depth to water	*	-5.00		**7.00**	ft	1	11/11/2024 12:55	R356375
Depth to water from measuring point	*	0		**9.55**	ft	1	11/11/2024 12:55	R356375
Elevation of groundwater surface	*	0		**525.70**	ft	1	11/11/2024 12:55	R356375
Measuring Point Elevation	*	0		**535.25**	ft	1	11/11/2024 12:55	R356375
Measuring Point Height Above Land Surface	*	0		**2.55**	ft	1	11/11/2024 12:55	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**5.7**	NTU	1	11/11/2024 12:55	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**64.7**	°F	1	11/11/2024 12:55	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.48**		1	11/11/2024 12:55	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1070**	µmhos/cm @25C	1	11/11/2024 12:55	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1160**	mg/L	2.5	11/14/2024 12:18	R356260
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/13/2024 17:44	R355975
Chloride	NELAP	5.00		**59.5**	mg/L	10	11/13/2024 17:44	R355975
Sulfate	NELAP	10.0		**558**	mg/L	10	11/13/2024 17:44	R355975
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.132**	mg/L	1	11/12/2024 11:08	231044
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/12/2024 11:08	231044
Boron	NELAP	0.0200		**14.9**	mg/L	1	11/12/2024 11:08	231044
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2024 11:08	231044
Calcium	NELAP	0.100		**185**	mg/L	1	11/12/2024 11:08	231044
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 11:08	231044
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 11:08	231044
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2024 11:08	231044
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/12/2024 11:08	231044
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2024 22:53	231044
Arsenic	NELAP	0.0010		**0.0182**	mg/L	5	11/14/2024 2:04	231044
Lithium	*	0.0030		**0.0062**	mg/L	5	11/14/2024 17:46	231044
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/14/2024 2:04	231044
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/14/2024 17:46	231044
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/13/2024 17:27	231083
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163

Client: City Water, Light & Power **Work Order:** 24110120

Client Project: Ash Pond Monitoring Wells **Report Date:** 06-Dec-24

Lab ID: 24110120-005 **Client Sample ID:** AP-4

Matrix: GROUNDWATER **Collection Date:** 11/11/2024 13:38

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.19**	ft	1	11/11/2024 13:38	R356375
Depth to water	*	-5.00		**7.77**	ft	1	11/11/2024 13:38	R356375
Depth to water from measuring point	*	0		**10.91**	ft	1	11/11/2024 13:38	R356375
Elevation of groundwater surface	*	0		**544.69**	ft	1	11/11/2024 13:38	R356375
Measuring Point Elevation	*	0		**555.60**	ft	1	11/11/2024 13:38	R356375
Measuring Point Height Above Land Surface	*	0		**3.14**	ft	1	11/11/2024 13:38	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**13**	NTU	1	11/11/2024 13:38	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**63.6**	°F	1	11/11/2024 13:38	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.82**		1	11/11/2024 13:38	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**688**	µmhos/cm @25C	1	11/11/2024 13:38	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**565**	mg/L	2.5	11/14/2024 12:18	R356260
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/13/2024 17:55	R355975
Chloride	NELAP	5.00		**12.3**	mg/L	10	11/13/2024 17:55	R355975
Sulfate	NELAP	10.0		**ND**	mg/L	10	11/13/2024 17:55	R355975
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.390**	mg/L	1	11/12/2024 12:39	231044
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/12/2024 12:39	231044
Boron	NELAP	0.0200		**0.0820**	mg/L	1	11/12/2024 12:39	231044
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2024 12:39	231044
Calcium	NELAP	0.100		**< 0.100**	mg/L	1	11/12/2024 12:39	231044
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 12:39	231044
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 12:39	231044
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2024 12:39	231044
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/12/2024 12:39	231044
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2024 22:57	231044
Arsenic	NELAP	0.0010		**0.0246**	mg/L	5	11/14/2024 2:09	231044
Lithium	*	0.0030		**0.0077**	mg/L	5	11/14/2024 17:51	231044
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/14/2024 2:09	231044
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/14/2024 17:51	231044
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/13/2024 17:30	231083
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-006
Client Sample ID: AP-5
Matrix: GROUNDWATER
Collection Date: 11/11/2024 14:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**552.63**	ft	1	11/11/2024 14:28	R356375
Depth to water	*	-5.00		**13.98**	ft	1	11/11/2024 14:28	R356375
Depth to water from measuring point	*	0		**16.28**	ft	1	11/11/2024 14:28	R356375
Elevation of groundwater surface	*	0		**567.62**	ft	1	11/11/2024 14:28	R356375
Measuring Point Elevation	*	0		**583.90**	ft	1	11/11/2024 14:28	R356375
Measuring Point Height Above Land Surface	*	0		**2.30**	ft	1	11/11/2024 14:28	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.0**	NTU	1	11/11/2024 14:28	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.5**	°F	1	11/11/2024 14:28	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.90**		1	11/11/2024 14:28	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**569**	µmhos/cm @25C	1	11/11/2024 14:28	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**470**	mg/L	2.5	11/14/2024 12:18	R356260
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/13/2024 18:07	R355975
Chloride	NELAP	5.00		**7.59**	mg/L	10	11/13/2024 18:07	R355975
Sulfate	NELAP	10.0		**59.2**	mg/L	10	11/13/2024 18:07	R355975
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0525**	mg/L	1	11/12/2024 12:41	231044
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/12/2024 12:41	231044
Boron	NELAP	0.0200		**0.0326**	mg/L	1	11/12/2024 12:41	231044
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2024 12:41	231044
Calcium	NELAP	0.100		**92.6**	mg/L	1	11/12/2024 12:41	231044
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 12:41	231044
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 12:41	231044
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2024 12:41	231044
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/12/2024 12:41	231044
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2024 23:01	231044
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	11/14/2024 2:15	231044
Lithium	*	0.0030		**0.0043**	mg/L	5	11/14/2024 17:57	231044
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/14/2024 2:15	231044
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/14/2024 17:57	231044
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/13/2024 17:38	231083
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 11/11/2024 10:27

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.20**	ft	1	11/11/2024 10:27	R356375
Depth to water	*	-5.00		**7.39**	ft	1	11/11/2024 10:27	R356375
Depth to water from measuring point	*	0		**9.81**	ft	1	11/11/2024 10:27	R356375
Elevation of groundwater surface	*	0		**528.01**	ft	1	11/11/2024 10:27	R356375
Measuring Point Elevation	*	0		**537.82**	ft	1	11/11/2024 10:27	R356375
Measuring Point Height Above Land Surface	*	0		**2.42**	ft	1	11/11/2024 10:27	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**46**	NTU	1	11/11/2024 10:27	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.2**	°F	1	11/11/2024 10:27	R356375
SW-846 9040B								
pH, Field	*	1.00		**7.00**		1	11/11/2024 10:27	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**557**	µmhos/cm @25C	1	11/11/2024 10:27	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**445**	mg/L	2.5	11/14/2024 12:18	R356260
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/13/2024 18:19	R355975
Chloride	NELAP	5.00		**34.5**	mg/L	10	11/13/2024 18:19	R355975
Sulfate	NELAP	10.0		**ND**	mg/L	10	11/13/2024 18:19	R355975
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.154**	mg/L	1	11/12/2024 19:30	231056
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/12/2024 19:30	231056
Boron	NELAP	0.0200		**0.248**	mg/L	1	11/12/2024 19:30	231056
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2024 19:30	231056
Calcium	NELAP	0.100		**66.0**	mg/L	1	11/12/2024 19:30	231056
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 19:30	231056
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 19:30	231056
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2024 19:30	231056
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/12/2024 19:30	231056
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**0.0021**	mg/L	5	11/20/2024 8:55	231056
Arsenic	NELAP	0.0010		**0.0108**	mg/L	5	11/15/2024 4:50	231056
Lithium	*	0.0030		**0.0104**	mg/L	5	11/20/2024 8:55	231056
Selenium	NELAP	0.0010		**0.0022**	mg/L	5	11/15/2024 4:50	231056
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/15/2024 4:50	231056
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/13/2024 17:40	231083
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-008
Client Sample ID: AP-7
Matrix: GROUNDWATER
Collection Date: 11/13/2024 11:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**496.50**	ft	1	11/13/2024 11:07	R356375
Depth to water	*	-5.00		**9.78**	ft	1	11/13/2024 11:07	R356375
Depth to water from measuring point	*	0		**12.44**	ft	1	11/13/2024 11:07	R356375
Elevation of groundwater surface	*	0		**526.58**	ft	1	11/13/2024 11:07	R356375
Measuring Point Elevation	*	0		**539.02**	ft	1	11/13/2024 11:07	R356375
Measuring Point Height Above Land Surface	*	0		**2.66**	ft	1	11/13/2024 11:07	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**55**	NTU	1	11/13/2024 11:07	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.7**	°F	1	11/13/2024 11:07	R356375
SW-846 9040B								
pH, Field	*	1.00		**7.17**		1	11/13/2024 11:07	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**774**	µmhos/cm @25C	1	11/13/2024 11:07	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	100		**470**	mg/L	5	11/18/2024 15:00	R356427
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/15/2024 7:20	R356148
Chloride	NELAP	5.00		**62.1**	mg/L	10	11/15/2024 7:20	R356148
Sulfate	NELAP	10.0		**ND**	mg/L	10	11/15/2024 7:20	R356148
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.148**	mg/L	1	11/18/2024 11:13	231260
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/18/2024 11:13	231260
Boron	NELAP	0.0200		**0.332**	mg/L	1	11/18/2024 11:13	231260
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/18/2024 11:13	231260
Calcium	NELAP	0.100		**61.9**	mg/L	1	11/18/2024 11:13	231260
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/18/2024 11:13	231260
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/18/2024 11:13	231260
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/18/2024 11:13	231260
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/18/2024 11:13	231260
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/20/2024 2:41	231194
Arsenic	NELAP	0.0010		**0.0947**	mg/L	5	11/20/2024 2:41	231194
Lithium	*	0.0030		**0.0079**	mg/L	5	11/20/2024 9:47	231194
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/20/2024 2:41	231194
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/20/2024 2:41	231194
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/18/2024 11:23	231196
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-009
Client Sample ID: AP-8
Matrix: GROUNDWATER
Collection Date: 11/13/2024 13:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.60**	ft	1	11/13/2024 13:15	R356375
Depth to water	*	-5.00		**4.42**	ft	1	11/13/2024 13:15	R356375
Depth to water from measuring point	*	0		**7.32**	ft	1	11/13/2024 13:15	R356375
Elevation of groundwater surface	*	0		**529.88**	ft	1	11/13/2024 13:15	R356375
Measuring Point Elevation	*	0		**537.20**	ft	1	11/13/2024 13:15	R356375
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	11/13/2024 13:15	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**12**	NTU	1	11/13/2024 13:15	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.3**	°F	1	11/13/2024 13:15	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.78**		1	11/13/2024 13:15	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**733**	µmhos/cm @25C	1	11/13/2024 13:15	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**530**	mg/L	2.5	11/18/2024 15:00	R356427
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/15/2024 17:39	R356222
Chloride	NELAP	5.00		**23.2**	mg/L	10	11/15/2024 17:39	R356222
Sulfate	NELAP	10.0		**ND**	mg/L	10	11/15/2024 17:39	R356222
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.364**	mg/L	1	11/18/2024 11:14	231260
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/18/2024 11:14	231260
Boron	NELAP	0.0200		**0.0840**	mg/L	1	11/18/2024 11:14	231260
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/18/2024 11:14	231260
Calcium	NELAP	0.100		**98.4**	mg/L	1	11/18/2024 11:14	231260
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/18/2024 11:14	231260
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/18/2024 11:14	231260
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/18/2024 11:14	231260
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/18/2024 11:14	231260
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/20/2024 2:47	231194
Arsenic	NELAP	0.0010		**0.0386**	mg/L	5	11/20/2024 2:47	231194
Lithium	*	0.0030		**0.0069**	mg/L	5	11/20/2024 9:53	231194
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/20/2024 2:47	231194
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/20/2024 2:47	231194
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/18/2024 11:52	231196
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163

Client: City Water, Light & Power **Work Order:** 24110120

Client Project: Ash Pond Monitoring Wells **Report Date:** 06-Dec-24

Lab ID: 24110120-011 **Client Sample ID:** AP-10

Matrix: GROUNDWATER **Collection Date:** 11/12/2024 13:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**499.43**	ft	1	11/12/2024 13:07	R356375
Depth to water	*	-5.00		**2.49**	ft	1	11/12/2024 13:07	R356375
Depth to water from measuring point	*	0		**5.59**	ft	1	11/12/2024 13:07	R356375
Elevation of groundwater surface	*	0		**531.91**	ft	1	11/12/2024 13:07	R356375
Measuring Point Elevation	*	0		**537.50**	ft	1	11/12/2024 13:07	R356375
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	11/12/2024 13:07	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**4.2**	NTU	1	11/12/2024 13:07	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.1**	°F	1	11/12/2024 13:07	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.73**		1	11/12/2024 13:07	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1150**	µmhos/cm @25C	1	11/12/2024 13:07	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**790**	mg/L	2.5	11/15/2024 15:28	R356333
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/14/2024 13:51	R356148
Chloride	NELAP	5.00		**25.7**	mg/L	10	11/14/2024 13:51	R356148
Sulfate	NELAP	10.0		**89.4**	mg/L	10	11/14/2024 13:51	R356148
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.628**	mg/L	1	11/15/2024 10:50	231140
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/15/2024 10:50	231140
Boron	NELAP	0.0200		**3.95**	mg/L	1	11/15/2024 10:50	231140
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/15/2024 10:50	231140
Calcium	NELAP	0.100		**140**	mg/L	1	11/15/2024 10:50	231140
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/15/2024 10:50	231140
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/15/2024 10:50	231140
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/15/2024 10:50	231140
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/15/2024 10:50	231140
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/16/2024 10:56	231140
Arsenic	NELAP	0.0010		**0.0011**	mg/L	5	11/16/2024 10:56	231140
Lithium	*	0.0030		**0.0101**	mg/L	5	11/20/2024 10:21	231140
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/16/2024 10:56	231140
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/16/2024 10:56	231140
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/14/2024 12:15	231146
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163

Client: City Water, Light & Power **Work Order:** 24110120

Client Project: Ash Pond Monitoring Wells **Report Date:** 06-Dec-24

Lab ID: 24110120-015 **Client Sample ID:** AP-14

Matrix: GROUNDWATER **Collection Date:** 11/12/2024 13:43

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**508.40**	ft	1	11/12/2024 13:43	R356375
Depth to water	*	-5.00		**1.84**	ft	1	11/12/2024 13:43	R356375
Depth to water from measuring point	*	0		**4.64**	ft	1	11/12/2024 13:43	R356375
Elevation of groundwater surface	*	0		**534.96**	ft	1	11/12/2024 13:43	R356375
Measuring Point Elevation	*	0		**539.60**	ft	1	11/12/2024 13:43	R356375
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	11/12/2024 13:43	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.0**	NTU	1	11/12/2024 13:43	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.2**	°F	1	11/12/2024 13:43	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.93**		1	11/12/2024 13:43	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1740**	µmhos/cm @25C	1	11/12/2024 13:43	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1840**	mg/L	2.5	11/15/2024 15:35	R356333
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/14/2024 15:24	R356148
Chloride	NELAP	5.00		**94.0**	mg/L	10	11/14/2024 15:24	R356148
Sulfate	NELAP	10.0		**909**	mg/L	10	11/14/2024 15:24	R356148
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0413**	mg/L	1	11/15/2024 14:47	231140
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/15/2024 14:47	231140
Boron	NELAP	0.200		**21.0**	mg/L	10	11/18/2024 13:45	231140
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/15/2024 14:47	231140
Calcium	NELAP	0.100		**253**	mg/L	1	11/15/2024 14:47	231140
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/15/2024 14:47	231140
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/15/2024 14:47	231140
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/15/2024 14:47	231140
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/15/2024 14:47	231140
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/16/2024 11:18	231140
Arsenic	NELAP	0.0010		**0.0022**	mg/L	5	11/16/2024 11:18	231140
Lithium	*	0.0030		**0.0072**	mg/L	5	11/20/2024 10:43	231140
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/16/2024 11:18	231140
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/16/2024 11:18	231140
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/14/2024 12:40	231146
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/04/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/04/2024 0:00	R357163

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24110120
Report Date: 06-Dec-24

Carrier: Daniel Crump

Received By: JMD

Completed by: Amber Dilallo
On: 11-Nov-24

Reviewed by: Ellie Hopkins
On: 14-Nov-24

Pages to follow: Chain of custody 6 Extra pages included 62

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 10.9
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

pH strip #96651. - JD/amberdilallo - 11/11/2024 4:39:54 PM

Samples were received on 11/12/24 at 15:30 on ice [9.1 - LTG5]. Additional nitric acid (100984) was needed in 1 of 2 containers for AP-10. - MDarling - 11/13/2024 8:38:32 AM

Samples were received on 11/13/24 at 15:45 on ice [10.1C - LTG#5]. pH strip # 96651 - lhenson - 11/14/2024 8:27:05 AM

CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24110120

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 10.9 °C 5
Preserved in: [ ] LAB [X] FIELD
LAB NOTES: PO# 96657
FOR LAB USE ONLY
JD 4/11/24

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Gp

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24110120-001	RW-3	11-4-24 1103	Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	AP-1	11-11-24 / 1144	Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	AP-2	1221	Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	AP-3	1255	Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	AP-4	1338	Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	AP-5	1428	Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	AP-6	1027	Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	AP-7		Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AP-8		Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AP-9		Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	AP-10		Groundwater	1	2								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
[signature]	11-11 / 1610	[signature] Dawn	11/11/24 16:10

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24110120

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24110120-012	AP-11		Groundwater	1	2								✔	✔	✔	✔	✔	✔
013	AP-12		Groundwater	1	2								✔	✔	✔	✔	✔	✔
014	AP-13		Groundwater	1	2								✔	✔	✔	✔	✔	✔
015	AP-14		Groundwater	1	2								✔	✔	✔	✔	✔	✔
016	T-1		Groundwater	1	2								✔	✔	✔	✔	✔	✔
017	T-2		Groundwater	1	2								✔	✔	✔	✔	✔	✔
018	T-4		Groundwater	1	2								✔	✔	✔	✔	✔	✔
019	T-5		Groundwater	1	2								✔	✔	✔	✔	✔	✔
020	T-6		Groundwater	1	2								✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
[signature]	11-11-1610	Joelle Davis	11/11/24 16:10

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24110120

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [x] ICE [ ] BLUE ICE [ ] NO ICE 9.1 °C 5
Preserved in: [x] LAB [ ] FIELD FOR LAB USE ONLY
LAB NOTES: Acid HNO3 (pH<2) to 4P10. 24 Q 0051 mD II 11/13/24

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [x] No
Are these samples known to be hazardous? [ ] Yes [x] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [x] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Brett Gillihan

RESULTS REQUESTED
[x] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24110120-001	RW-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	AP-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	AP-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	AP-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	AP-4		Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	AP-5		Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	AP-6		Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	AP-7		Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AP-8		Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AP-9		Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	AP-10	11-12-24 1307	Groundwater	1	2								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
	11-12 / 1530	Jodi Davis	11/12/24 15:30

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MP 11/13

CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24110120

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:
*1343 TESTed 11/21/24

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

PROJECT NAME/NUMBER: Ash Pond Monitoring Wells
SAMPLE COLLECTOR'S NAME: Bret Gillihan

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24110120-012	AP-11	11-12-24 1001	Groundwater	1	2								✔	✔	✔	✔	✔	✔
013	AP-12	1049	Groundwater	1	2								✔	✔	✔	✔	✔	✔
014	AP-13	1125	Groundwater	1	2								✔	✔	✔	✔	✔	✔
015	AP-14	*1343	Groundwater	1	2								✔	✔	✔	✔	✔	✔
016	T-1	1209	Groundwater	1	2								✔	✔	✔	✔	✔	✔
017	T-2		Groundwater	1	2								✔	✔	✔	✔	✔	✔
018	T-4		Groundwater	1	2								✔	✔	✔	✔	✔	✔
019	T-5		Groundwater	1	2								✔	✔	✔	✔	✔	✔
020	T-6		Groundwater	1	2								✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
[signature]	11-12/1530	[signature]	11/12/24 15:30

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24110120

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 10.1 °C 5
Preserved in: ☐ LAB ☒ FIELD FOR LAB USE ONLY
LAB NOTES: PWS 94651
LL 11/14/24

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Brett Gillihan

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl; F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24110120-001	RW-3		Groundwater	1	2								✔	✔	✔	✔	✔	✔
002	AP-1		Groundwater	1	2								✔	✔	✔	✔	✔	✔
003	AP-2		Groundwater	1	2								✔	✔	✔	✔	✔	✔
004	AP-3		Groundwater	1	2								✔	✔	✔	✔	✔	✔
005	AP-4		Groundwater	1	2								✔	✔	✔	✔	✔	✔
006	AP-5		Groundwater	1	2								✔	✔	✔	✔	✔	✔
007	AP-6		Groundwater	1	2								✔	✔	✔	✔	✔	✔
008	AP-7	11-13-24 1107	Groundwater	1	2								✔	✔	✔	✔	✔	✔
009	AP-8	11/13/24 1315	Groundwater	1	2								✔	✔	✔	✔	✔	✔
010	AP-9	11-13-24 1230	Groundwater	1	2								✔	✔	✔	✔	✔	✔
011	AP-10		Groundwater	1	2								✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
[signature]	11-13-1545	[signature]	11/13/24 1545

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24110120

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power

Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building

City/State/Zip: Springfield IL 62712

Contact: Eric Staley Phone: (217) 757-8610

Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No

Are these samples known to be hazardous? ☐ Yes ☑ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C

Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY

LAB NOTES:

Client Comments:

*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Bret Gillihan

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers									INDICATE ANALYSIS REQUESTED												
				UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity								
24110120-012	AP-11		Groundwater	1	2								✔	✔	✔	✔	✔	✔								
013	AP-12		Groundwater	1	2								✔	✔	✔	✔	✔	✔								
014	AP-13		Groundwater	1	2								✔	✔	✔	✔	✔	✔								
015	AP-14		Groundwater	1	2								✔	✔	✔	✔	✔	✔								
016	T-1	~~1209~~	Groundwater	1	2								✔	✔	✔	✔	✔	✔								
017	T-2	11-13-24 1340	Groundwater	1	2								✔	✔	✔	✔	✔	✔								
018	T-4	1207	Groundwater	1	2								✔	✔	✔	✔	✔	✔								
019	T-5	1135	Groundwater	1	2								✔	✔	✔	✔	✔	✔								
020	T-6	1037	Groundwater	1	2								✔	✔	✔	✔	✔	✔								
			Groundwater																							
			Groundwater																							

Relinquished By	Date/Time	Received By	Date/Time
	11-13 1545		11/13/24 1545

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Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	RW-3
Project Location:	Springfield, IL	**Sample ID:**	001
W.O. Number (s):	24110120	**Date (s):**	11/11/2024

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 56 °F — Wind Direction: ☐ N ☐ S ☐ W ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/11/2024 10:36

Static Water Level: 11.45 feet below TOC

Total Depth: 44.01 feet below TOC

Water Column: 32.56 feet

Purging Activities

Purged By: JC — Purge Date: 11/11/2024

Purge Method: Bladder Pump — Well Diameter: 2"

Purge Volume Calculation (L): 32.56 ft. x 0.022 = 0.72 L x 3 Vol. = 2.16 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.50 L

Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:37	0.0	173	purge start time						
10:42	0.9	↓	7.12	525.70	14.52	4.56	-168.70	6.48	
10:45	1.4		7.13	532.90	14.51	3.40	-178.00	46.77	
10:48	1.9		7.13	535.30	14.50	2.78	-180.60	90.25	
10:51	2.5		7.13	535.60	14.50	2.41	-181.80	122.85	
10:54	3.0		7.13	535.60	14.47	2.17	-182.50	72.57	
10:57	3.5		7.13	535.40	14.45	1.99	-182.90	112.49	
11:00	4.0		7.13	534.70	14.47	1.87	-183.00	50.61	
11:03	4.5		7.13	531.10	14.90	1.77	-182.40	47.61	

Sampling Activities

Sampled By: JC — Sample Date/Time: 11/11/2024 11:03

Sample Method: Low Flow — Sample Equipment: Bladder Pump

Sample Parameters: 7.13 pH — 531.10 Spec. Cond. — 14.90 Temp

Field Filtered: Yes — Filter Type: Inline Disposable

Water Level: 15.89 feet below TOC — Drawdown: 4.44 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp — **Date:** 11/11/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-1
Project Location:	Springfield, IL	**Sample ID:**	002
W.O. Number (s):	24110120	**Date (s):**	11/11/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 58 °F Wind Direction: ☐ N ☐ S ☐ W ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good	Protective Casing		X
Casing	Good	Well		X
Protective Casing	Good			
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/11/2024 11:19

Static Water Level: 10.39 feet below TOC

Total Depth: 31.08 feet below TOC

Water Column: 20.69 feet

Purging Activities

Purged By: JC Purge Date: 11/11/2024

Purge Method: Bladder Pump Well Diameter: 2"

Purge Volume Calculation (L): 20.69 ft. x 0.022 = 0.46 L x 3 Vol. = 1.38 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.50 L

Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:19	0.0	140	purge start time						
11:26	1.0	↓	6.54	1,269.10	15.84	3.49	-82.60	34.54	
11:29	1.4		6.54	1,307.80	15.87	2.83	-98.40	26.67	
11:32	1.8		6.54	1,328.20	15.98	2.43	-105.40	21.37	
11:35	2.2		6.54	1,343.50	16.07	2.16	-108.70	16.20	
11:38	2.7		6.54	1,356.50	16.17	1.97	-111.20	13.42	
11:41	3.1		6.54	1,368.10	16.23	1.83	-112.70	12.88	
11:44	3.5		6.54	1,377.10	16.24	1.72	-113.90	13.14	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/11/2024 11:44

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 6.54 pH 1,377.10 Spec. Cond. 16.24 Temp

Field Filtered: No Filter Type:

Water Level: 10.51 feet below TOC Drawdown: 0.12 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp **Date:** 11/11/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-2
Project Location:	Springfield, IL	**Sample ID:**	003
W.O. Number (s):	24110120	**Date (s):**	11/11/2024

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 60 °F — Wind Direction: ☐ N ☐ S ☐ W ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/11/2024 11:53

Static Water Level: 6.54 feet below TOC

Total Depth: 21.33 feet below TOC

Water Column: 14.79 feet

Purging Activities

Purged By: JC — Purge Date: 11/11/2024

Purge Method: Bladder Pump — Well Diameter: 2"

Purge Volume Calculation (L): 14.79 ft. x 0.022 = 0.33 L x 3 Vol. = 0.99 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:53	0.0	214	purge start time						
12:00	1.5	↓	6.42	1,127.80	16.43	3.88	1.10	31.79	
12:03	2.1		6.41	1,131.40	16.38	3.04	-1.30	24.05	
12:06	2.8		6.41	1,134.90	16.33	2.54	-3.40	16.72	
12:09	3.4		6.41	1,137.30	16.31	2.23	-4.90	13.76	
12:12	4.1		6.41	1,138.80	16.27	2.01	-6.20	10.23	
12:15	4.7		6.41	1,140.60	16.25	1.86	-7.10	7.14	
12:18	5.4		6.41	1,142.00	16.24	1.74	-8.10	5.54	
12:21	6.0		6.41	1,143.30	16.26	1.65	-8.80	6.05	

Sampling Activities

Sampled By: JC — Sample Date/Time: 11/11/2024 12:21

Sample Method: Low Flow — Sample Equipment: Bladder Pump

Sample Parameters: 6.41 pH — 1,143.30 Spec. Cond. — 16.26 Temp

Field Filtered: No — Filter Type:

Water Level: 6.61 feet below TOC — Drawdown: 0.07 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp — **Date:** 11/11/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-3
Project Location:	Springfield, IL	**Sample ID:**	004
W.O. Number (s):	24110120	**Date (s):**	11/11/2024

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 61 °F — Wind Direction: ☐ N ☐ S ☐ W ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/11/2024 12:28

Static Water Level: 9.55 feet below TOC

Total Depth: 20.80 feet below TOC

Water Column: 11.25 feet

Purging Activities

Purged By: JC — Purge Date: 11/11/2024

Purge Method: Bladder Pump — Well Diameter: 2"

Purge Volume Calculation (L): 11.25 ft. x 0.022 = 0.25 L x 3 Vol. = 0.75 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.50 L

Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:28	0.0	167	purge start time						
12:34	1.0	↓	6.50	1,066.10	17.84	4.02	-61.30	48.34	
12:37	1.5		6.48	1,069.40	18.11	3.05	-59.80	33.02	
12:40	2.0		6.48	1,071.90	18.13	2.53	-63.60	25.25	
12:43	2.5		6.48	1,070.90	18.15	2.22	-64.90	18.80	
12:46	3.0		6.48	1,071.00	18.21	2.01	-66.80	13.00	
12:49	3.5		6.48	1,071.60	18.13	1.86	-68.90	9.95	
12:52	4.0		6.48	1,070.80	18.09	1.75	-70.90	7.60	
12:55	4.5		6.48	1,070.20	18.19	1.66	-72.60	5.70	

Sampling Activities

Sampled By: JC — Sample Date/Time: 11/11/2024 12:55

Sample Method: Low Flow — Sample Equipment: Bladder Pump

Sample Parameters: 6.48 pH — 1,070.20 Spec. Cond. — 18.19 Temp

Field Filtered: No — Filter Type:

Water Level: 9.55 feet below TOC — Drawdown: 0.00 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp — **Date:** 11/11/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-4
Project Location:	Springfield, IL	**Sample ID:**	005
W.O. Number (s):	24110120	**Date (s):**	11/11/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 61 °F Wind Direction: ☐ N ☐ S ☐ W ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good	Protective Casing		X
Casing	Good	Well		X
Protective Casing	Good			
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/11/2024 13:10

Static Water Level: 10.91 feet below TOC

Total Depth: 60.41 feet below TOC

Water Column: 49.50 feet

Purging Activities

Purged By: JC Purge Date: 11/11/2024

Purge Method: Bladder Pump Well Diameter: 2"

Purge Volume Calculation (L): 49.5 ft. x 0.022 = 1.09 L x 3 Vol. = 3.27 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:11	0.0	222	purge start time						
13:20	2.0	↓	6.81	681.40	17.79	3.86	-117.30	10.74	
13:23	2.7		6.81	683.50	17.73	3.06	-124.10	11.13	
13:26	3.3		6.82	684.40	17.70	2.55	-128.20	12.26	
13:29	4.0		6.82	686.00	17.61	2.22	-130.50	12.81	
13:32	4.7		6.82	687.30	17.58	1.99	-131.90	12.48	
13:35	5.3		6.82	687.80	17.56	1.83	-132.90	13.25	
13:38	6.0		6.82	688.10	17.53	1.71	-133.50	12.90	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/11/2024 13:38

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 6.82 pH 688.10 Spec. Cond. 17.53 Temp

Field Filtered: No Filter Type:

Water Level: 11.09 feet below TOC Drawdown: 0.18 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp **Date:** 11/11/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-5
Project Location:	Springfield, IL	**Sample ID:**	006
W.O. Number (s):	24110120	**Date (s):**	11/11/2024

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 62 °F — Wind Direction: ☐ N ☐ S ☐ W ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/11/2024 13:52

Static Water Level: 16.28 feet below TOC

Total Depth: 31.27 feet below TOC

Water Column: 14.99 feet

Purging Activities

Purged By: JC — Purge Date: 11/11/2024

Purge Method: Bladder Pump — Well Diameter: 2"

Purge Volume Calculation (L): 14.99 ft. x 0.022 = 0.33 L x 3 Vol. = 0.99 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:53	0.0	171	purge start time						
14:01	1.4	↓	6.95	560.40	14.92	5.12	16.00	3.62	
14:04	1.9		6.93	563.50	14.84	4.41	21.90	3.94	
14:07	2.4		6.92	565.40	14.82	3.90	26.70	3.71	
14:10	3.0		6.92	566.90	14.81	3.55	30.90	3.68	
14:13	3.5		6.91	567.90	14.79	3.31	34.80	3.91	
14:16	4.0		6.91	568.60	14.81	3.11	38.00	4.72	
14:19	4.5		6.91	569.00	14.81	2.97	40.80	5.23	
14:22	5.0		6.91	569.30	14.77	2.85	43.10	5.53	
14:25	5.5		6.91	569.20	14.75	2.75	45.20	5.69	
14:28	6.0		6.90	569.40	14.73	2.68	47.10	7.95	

Sampling Activities

Sampled By: JC — Sample Date/Time: 11/11/2024 14:28

Sample Method: Low Flow — Sample Equipment: Bladder Pump

Sample Parameters: 6.90 pH — 569.40 Spec. Cond. — 14.73 Temp

Field Filtered: No — Filter Type:

Water Level: 17.51 feet below TOC — Drawdown: 1.23 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp — **Date:** 11/11/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-6
Project Location:	Springfield, IL	**Sample ID:**	007
W.O. Number (s):	24110120	**Date (s):**	11/11/2024

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 54 °F — Wind Direction: ☐ N ☐ S ☐ W ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/11/2024 9:53

Static Water Level: 9.81 feet below TOC

Total Depth: 39.62 feet below TOC

Water Column: 29.81 feet

Purging Activities

Purged By: JC — Purge Date: 11/11/2024

Purge Method: Bladder Pump — Well Diameter: 2"

Purge Volume Calculation (L): 29.81 ft. x 0.022 = 0.66 L x 3 Vol. = 1.98 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:54	0.0	152	purge start time						
10:00	1.0	↓	6.94	559.70	14.34	4.83	-126.70	19.66	
10:03	1.4		6.96	559.30	14.54	3.83	-128.70	40.45	
10:06	1.9		6.97	559.40	14.80	3.29	-127.40	48.92	
10:09	2.3		6.98	559.10	14.87	2.94	-124.90	39.08	
10:12	2.8		6.98	558.90	14.93	2.69	-123.30	41.40	
10:15	3.2		6.99	558.00	14.95	2.48	-122.00	40.96	
10:18	3.7		6.99	558.10	14.97	2.32	-120.90	60.40	
10:21	4.1		6.99	558.00	14.98	2.18	-119.80	43.02	
10:24	4.6		7.00	557.50	14.98	2.06	-118.70	40.71	
10:27	5.0		7.00	557.40	15.09	1.96	-117.40	46.15	

Sampling Activities

Sampled By: JC — Sample Date/Time: 11/11/2024 10:27

Sample Method: Low Flow — Sample Equipment: Bladder Pump

Sample Parameters: 7.00 pH — 557.40 Spec. Cond. — 15.09 Temp

Field Filtered: No — Filter Type:

Water Level: 15.35 feet below TOC — Drawdown: 5.54 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp — **Date:** 11/11/2024

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 24110120
Monitoring Point: AP-7
Sample ID: 008
Date (s): 11/13/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 53 °F
Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE ☑ NW
Precipitation: ☑ None ☐ Light ☐ Heavy
Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/2024 10:47
Static Water Level: 12.44 feet below TOC
Total Depth: 42.52 feet below TOC
Water Column: 30.08 feet

Purging Activities

Purged By: BG
Purge Date: 11/13/2024
Purge Method: Bladder Pump
Well Diameter: 2"
Purge Volume Calculation (L): 30.08 ft. x 0.022 = 0.66 L x 3 Vol. = 1.98 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Clear
Odor: None
Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:47	0.0	300	purge start time						
10:52	1.5	↓	7.31	711.40	13.46	1.34	-87.00	12.06	
10:55	2.4		7.22	748.70	13.77	0.95	-105.20	152.78	
10:58	3.3		7.19	765.90	13.83	0.87	-117.50	16.64	
11:01	4.2		7.18	771.50	13.87	0.77	-125.10	18.78	
11:04	5.1		7.17	775.00	13.73	0.69	-130.40	47.72	
11:07	6.0		7.17	774.30	13.70	0.64	-134.40	55.07	

Sampling Activities

Sampled By: BG
Sample Date/Time: 11/13/2024 11:07
Sample Method: Low Flow
Sample Equipment: Bladder Pump
Sample Parameters: 7.17 pH 774.30 Spec. Cond. 13.70 Temp
Field Filtered: No Filter Type:
Water Level: 12.89 feet below TOC
Drawdown: 0.45 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Brett Gillihan
Date: 11/13/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-8
Project Location:	Springfield, IL	**Sample ID:**	009
W.O. Number (s):	24110120	**Date (s):**	11/13/2024

Field Team Members

Name: Tracy Carroll Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 49 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE ☑ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/2024 12:55

Static Water Level: 7.32 feet below TOC

Total Depth: 39.60 feet below TOC

Water Column: 32.28 feet

Purging Activities

Purged By: TC Purge Date: 11/13/2024

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 32.28 ft. x 0.022 = 0.71 L x 3 Vol. = 2.13 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:55	0.0	300	purge start time						
13:03	2.4	↓	6.79	733.30	14.12	1.20	-155.50	3.49	
13:06	3.3		6.79	733.60	14.08	0.94	-159.80	3.00	
13:09	4.2		6.78	733.40	14.09	0.81	-161.10	5.05	
13:12	5.1		6.78	733.30	14.10	0.74	-161.90	8.64	
13:15	6.0		6.78	733.20	14.07	0.69	-162.70	11.93	

Sampling Activities

Sampled By: TC Sample Date/Time: 11/13/2024 13:15

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.78 pH 733.20 Spec. Cond. 14.07 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 7.65 feet below TOC Drawdown: 0.33 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45720

Form Completed By: Tracy Carroll **Date:** 11/13/2024

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 24110120
Monitoring Point: AP-10
Sample ID: 011
Date (s): 11/12/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 53 °F
Wind Direction: ☐ N ☐ S ☑ W ☐ E ☐ SE ☐ SW ☐ NE ☐ NW
Precipitation: ☑ None ☐ Light ☐ Heavy
Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/12/2024 12:48
Static Water Level: 5.59 feet below TOC
Total Depth: 38.07 feet below TOC
Water Column: 32.48 feet

Purging Activities

Purged By: BG Purge Date: 11/12/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 32.48 ft. x 0.022 = 0.71 L x 3 Vol. = 2.13 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Clear Odor: Slight Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:48	0.0	316	purge start time						
12:52	1.3	↓	6.88	1,154.40	13.84	1.87	-91.80	6.65	
12:55	2.2		6.79	1,152.30	13.93	1.57	-89.20	5.80	
12:58	3.2		6.76	1,152.90	13.91	1.45	-88.40	4.83	
13:01	4.1		6.75	1,152.60	13.92	1.39	-87.40	4.48	
13:04	5.1		6.74	1,154.10	13.92	1.21	-88.10	4.32	
13:07	6.0		6.73	1,152.60	13.96	1.18	-88.70	4.17	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/12/2024 13:07
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.73 pH 1,152.60 Spec. Cond. 13.96 Temp
Field Filtered: No Filter Type:
Water Level: 5.96 feet below TOC Drawdown: 0.37 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Brett Gillihan **Date:** 11/12/2024

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 24110120
Monitoring Point: AP-14
Sample ID: 015
Date (s): 11/12/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 54 °F
Wind Direction: ☐ N ☐ S ☑ W ☐ E ☐ SE ☐ SW ☐ NE ☐ NW
Precipitation: ☑ None ☐ Light ☐ Heavy
Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/12/2024 13:23
Static Water Level: 4.64 feet below TOC
Total Depth: 31.20 feet below TOC
Water Column: 26.56 feet

Purging Activities

Purged By: 54
Purge Date: 11/12/2024
Purge Method: Peristaltic Pump
Well Diameter: 2"
Purge Volume Calculation (L): 26.56 ft. x 0.022 = 0.58 L x 3 Vol. = 1.74 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Clear
Odor: None
Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:23	0.0	75	purge start time						
13:28	0.4	↓	6.99	1,752.50	13.64	2.88	-45.90	15.14	
13:31	0.6		6.97	1,747.60	13.56	2.40	-41.10	39.05	
13:34	0.9		6.95	1,744.50	13.55	2.13	-39.00	143.38	
13:37	1.1		6.94	1,745.20	13.55	1.95	-38.10	11.17	
13:40	1.3		6.94	1,746.10	13.48	1.86	-37.60	9.13	
13:43	1.5		6.93	1,744.20	13.45	1.73	-37.40	8.02	

Sampling Activities

Sampled By: BG
Sample Date/Time: 11/12/2024 13:43
Sample Method: Low Flow
Sample Equipment: Peristaltic Pump
Sample Parameters: 6.93 pH 1,744.20 Spec. Cond. 13.45 Temp
Field Filtered: No Filter Type:
Water Level: 5.21 feet below TOC
Drawdown: 0.57 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Brett Gillihan
Date: 11/12/2024

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

December 05, 2024

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 24110120

Order No.: 24111575

Dear Shelly Hennessy:

Summit Environmental Technologies, Inc. received 20 sample(s) on 11/20/2024 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Case Narrative

WO#: **24111575**
Date: **12/5/2024**

CLIENT: TEKLAB Inc,
Project: 24110120

WorkOrder Narrative:
24111575: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, In
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-448
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **24111575**
Date: **12/5/2024**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Workorder Sample Summary

WO#: **24111575**

05-Dec-24

CLIENT: TEKLAB Inc,
Project: 24110120

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24111575-001	24110120-001		11/11/2024 11:03:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-002	24110120-002		11/11/2024 11:44:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-003	24110120-003		11/11/2024 12:21:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-004	24110120-004		11/11/2024 12:55:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-005	24110120-005		11/11/2024 1:38:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-006	24110120-006		11/11/2024 2:28:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-007	24110120-007		11/11/2024 10:27:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-008	24110120-008		11/13/2024 11:07:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-009	24110120-009		11/13/2024 1:15:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-010	24110120-010		11/13/2024 12:30:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-011	24110120-011		11/12/2024 1:07:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-012	24110120-012		11/12/2024 10:01:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-013	24110120-013		11/12/2024 10:49:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-014	24110120-014		11/12/2024 11:25:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-015	24110120-015		11/12/2024 1:49:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-016	24110120-016		11/12/2024 12:09:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-017	24110120-017		11/13/2024 1:40:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-018	24110120-018		11/13/2024 12:07:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-019	24110120-019		11/13/2024 11:35:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-020	24110120-020		11/13/2024 10:37:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water

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DATES REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24111575-001A	24110120-001	11/11/2024 11:03:00 AM	Non-Potable Water	Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-002A	24110120-002	11/11/2024 11:44:00 AM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-003A	24110120-003	11/11/2024 12:21:00 PM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-004A	24110120-004	11/11/2024 12:55:00 PM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-005A	24110120-005	11/11/2024 1:38:00 PM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-006A	24110120-006	11/11/2024 2:28:00 PM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-007A	24110120-007	11/11/2024 10:27:00 AM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-008A	24110120-008	11/13/2024 11:07:00 AM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-009A	24110120-009	11/13/2024 1:15:00 PM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-010A	24110120-010	11/13/2024 12:30:00 PM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-011A	24110120-011	11/12/2024 1:07:00 PM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-012A	24110120-012	11/12/2024 10:01:00 AM		Radium-226 (EPA 903.0)		11/26/2024 1:09:00 PM	12/5/2024 9:34:00 AM

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DATES REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,

Project: 24110120

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24111575-012A	24110120-012	11/12/2024 10:01:00 AM	Non-Potable Water	Radium-228 (EPA 904.0)		11/26/2024 1:09:00 PM	12/4/2024 2:33:00 PM
24111575-013A	24110120-013	11/12/2024 10:49:00 AM		Radium-226 (EPA 903.0)		11/22/2024 11:34:00 AM	11/29/2024 9:41:00 AM
				Radium-228 (EPA 904.0)		11/22/2024 11:34:00 AM	11/27/2024 2:09:00 PM
24111575-014A	24110120-014	11/12/2024 11:25:00 AM		Radium-226 (EPA 903.0)		11/26/2024 1:09:00 PM	12/5/2024 9:34:00 AM
				Radium-228 (EPA 904.0)		11/26/2024 1:09:00 PM	12/4/2024 2:33:00 PM
24111575-015A	24110120-015	11/12/2024 1:49:00 PM		Radium-226 (EPA 903.0)		11/26/2024 1:09:00 PM	12/5/2024 9:34:00 AM
				Radium-228 (EPA 904.0)		11/26/2024 1:09:00 PM	12/4/2024 2:33:00 PM
24111575-016A	24110120-016	11/12/2024 12:09:00 PM		Radium-226 (EPA 903.0)		11/26/2024 1:09:00 PM	12/5/2024 9:34:00 AM
				Radium-228 (EPA 904.0)		11/26/2024 1:09:00 PM	12/4/2024 2:33:00 PM
24111575-017A	24110120-017	11/13/2024 1:40:00 PM		Radium-226 (EPA 903.0)		11/26/2024 1:09:00 PM	12/5/2024 9:34:00 AM
				Radium-228 (EPA 904.0)		11/26/2024 1:09:00 PM	12/4/2024 2:33:00 PM
24111575-018A	24110120-018	11/13/2024 12:07:00 PM		Radium-226 (EPA 903.0)		11/26/2024 1:09:00 PM	12/5/2024 9:34:00 AM
				Radium-228 (EPA 904.0)		11/26/2024 1:09:00 PM	12/4/2024 2:33:00 PM
24111575-019A	24110120-019	11/13/2024 11:35:00 AM		Radium-226 (EPA 903.0)		11/26/2024 1:09:00 PM	12/5/2024 9:34:00 AM
				Radium-228 (EPA 904.0)		11/26/2024 1:09:00 PM	12/4/2024 2:33:00 PM
24111575-020A	24110120-020	11/13/2024 10:37:00 AM		Radium-226 (EPA 903.0)		11/26/2024 1:09:00 PM	12/5/2024 9:34:00 AM
				Radium-228 (EPA 904.0)		11/26/2024 1:09:00 PM	12/4/2024 2:33:00 PM

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Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/11/2024 11:03:00 AM
Project: 24110120
Lab ID: 24111575-001
Matrix: NON-POTABLE WATER
Client Sample ID: 24110120-001

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.100	1	12/4/2024 9:31:52 AM
Yield	1.00					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	1.23	1.00		pCi/L	± 0.650	1	12/3/2024 4:29:04 PM
Yield	0.980					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Project: 24110120
Lab ID: 24111575-002
Client Sample ID: 24110120-002

Collection Date: 11/11/2024 11:44:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.130	1	12/4/2024 9:31:52 AM
Yield	0.980					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	ND	1.00		pCi/L	± 0.490	1	12/3/2024 4:29:04 PM
Yield	0.930					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Project: 24110120
Lab ID: 24111575-003
Client Sample ID: 24110120-003

Collection Date: 11/11/2024 12:21:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.0600	1	12/4/2024 9:31:52 AM
Yield	1.00					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	ND	1.00		pCi/L	± 0.450	1	12/3/2024 4:29:04 PM
Yield	0.990					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,

Collection Date: 11/11/2024 12:55:00 PM

Project: 24110120

Lab ID: 24111575-004

Matrix: NON-POTABLE WATER

Client Sample ID: 24110120-004

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	12/4/2024 9:31:52 AM
Yield	0.810					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	ND	1.00		pCi/L	± 0.630	1	12/3/2024 4:29:04 PM
Yield	0.780					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Project: 24110120
Lab ID: 24111575-005
Client Sample ID: 24110120-005

Collection Date: 11/11/2024 1:38:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.120	1	12/4/2024 9:31:52 AM
Yield	0.990					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	ND	1.00		pCi/L	± 0.710	1	12/3/2024 4:29:04 PM
Yield	0.860					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Project: 24110120
Lab ID: 24111575-006
Client Sample ID: 24110120-006

Collection Date: 11/11/2024 2:28:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	12/4/2024 9:31:52 AM
Yield	1.00					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	ND	1.00		pCi/L	± 0.590	1	12/3/2024 4:29:04 PM
Yield	0.990					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/11/2024 10:27:00 AM
Project: 24110120
Lab ID: 24111575-007
Matrix: NON-POTABLE WATER
Client Sample ID: 24110120-007

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	12/4/2024 9:31:52 AM
Yield	0.980					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	ND	1.00		pCi/L	± 0.520	1	12/3/2024 4:29:04 PM
Yield	1.00					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Project: 24110120
Lab ID: 24111575-008
Client Sample ID: 24110120-008

Collection Date: 11/13/2024 11:07:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.100	1	12/4/2024 9:31:52 AM
Yield	1.00					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	ND	1.00		pCi/L	± 0.660	1	12/3/2024 4:29:04 PM
Yield	0.880					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

Summit Environmental Technologies, Inc.
3310 Win St.
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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Project: 24110120
Lab ID: 24111575-009
Client Sample ID: 24110120-009

Collection Date: 11/13/2024 1:15:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	1.05	1.00		pCi/L	± 0.200	1	12/4/2024 9:31:52 AM
Yield	0.970					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	1.52	1.00		pCi/L	± 0.770	1	12/3/2024 4:29:04 PM
Yield	0.930					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/12/2024 1:07:00 PM
Project: 24110120
Lab ID: 24111575-011
Matrix: NON-POTABLE WATER
Client Sample ID: 24110120-011

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.210	1	12/4/2024 9:31:52 AM
Yield	0.790					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	1.61	1.00		pCi/L	± 0.870	1	12/3/2024 4:29:04 PM
Yield	0.770					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,

Collection Date: 11/12/2024 1:49:00 PM

Project: 24110120

Lab ID: 24111575-015

Matrix: NON-POTABLE WATER

Client Sample ID: 24110120-015

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	12/5/2024 9:34:00 AM
Yield	1.00					1	12/5/2024 9:34:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.390	1	12/4/2024 2:33:00 PM
Yield	1.00					1	12/4/2024 2:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80532**

Sample ID: **MB-80532** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/26/2024** RunNo: **198234**
Client ID: **BatchQC** Batch ID: **80532** TestNo: **E904.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5359799**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-80532** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/26/2024** RunNo: **198234**
Client ID: **BatchQC** Batch ID: **80532** TestNo: **E904.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5359800**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.06	1.00	5.000	0	61.2	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-80532** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/26/2024** RunNo: **198234**
Client ID: **BatchQC** Batch ID: **80532** TestNo: **E904.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5359801**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.45	1.00	5.000	0	69.0	50	130	3.060	12.0	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80532**

Sample ID: **24111631-001EDUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/26/2024** RunNo: **198234**
Client ID: **BatchQC** Batch ID: **80532** TestNo: **E904.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5359814**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80532**

Sample ID: **MB-80532**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/26/2024**	RunNo: **198237**
Client ID: **BatchQC**	Batch ID: **80532**	TestNo: **E903.0**	**E903-904**	Analysis Date: **12/5/2024**	SeqNo: **5359889**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-80532**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/26/2024**	RunNo: **198237**
Client ID: **BatchQC**	Batch ID: **80532**	TestNo: **E903.0**	**E903-904**	Analysis Date: **12/5/2024**	SeqNo: **5359890**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	3.53	1.00	5.000	0	70.6	70	130				QLR

Sample ID: **LCSD-80532**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/26/2024**	RunNo: **198237**
Client ID: **BatchQC**	Batch ID: **80532**	TestNo: **E903.0**	**E903-904**	Analysis Date: **12/5/2024**	SeqNo: **5359891**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.98	1.00	5.000	0	99.6	70	130	3.530	34.1	20	R

Sample ID: **24111631-001EDUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/26/2024**	RunNo: **198237**
Client ID: **BatchQC**	Batch ID: **80532**	TestNo: **E903.0**	**E903-904**	Analysis Date: **12/5/2024**	SeqNo: **5359904**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80532**

Sample ID: **24111631-001EDUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/26/2024** RunNo: **198237**
Client ID: **BatchQC** Batch ID: **80532** TestNo: **E903.0** **E903-904** Analysis Date: **12/5/2024** SeqNo: **5359904**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80533**

Sample ID: **MB-80533** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197941**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E904.0** **E903-904** Analysis Date: **11/27/2024** SeqNo: **5352672**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-80533** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197941**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E904.0** **E903-904** Analysis Date: **11/27/2024** SeqNo: **5352673**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.41	1.00	5.000	0	68.2	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-80533** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197941**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E904.0** **E903-904** Analysis Date: **11/27/2024** SeqNo: **5352674**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.37	1.00	5.000	0	67.4	50	130	3.410	1.18	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80533**

Sample ID: **24111225-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197941**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E904.0** **E903-904** Analysis Date: **11/27/2024** SeqNo: **5352689**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	1.00			0	0			1.000	0		

Sample ID: **24111363-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197941**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E904.0** **E903-904** Analysis Date: **11/27/2024** SeqNo: **5352692**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.11	1.00		0	0			0.9300	17.6	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80533**

Sample ID: **MB-80533**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/22/2024**	RunNo: **197943**
Client ID: **BatchQC**	Batch ID: **80533**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/29/2024**	SeqNo: **5352721**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-80533**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/22/2024**	RunNo: **197943**
Client ID: **BatchQC**	Batch ID: **80533**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/29/2024**	SeqNo: **5352722**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.06	1.00	5.000	0	101	70	130				

Sample ID: **LCSD-80533**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/22/2024**	RunNo: **197943**
Client ID: **BatchQC**	Batch ID: **80533**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/29/2024**	SeqNo: **5352723**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.18	1.00	5.000	0	83.6	70	130	5.060	19.0	20	

Sample ID: **24111225-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/22/2024**	RunNo: **197943**
Client ID: **BatchQC**	Batch ID: **80533**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/29/2024**	SeqNo: **5352733**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80533**

Sample ID: **24111225-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197943**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E903.0** **E903-904** Analysis Date: **11/29/2024** SeqNo: **5352733**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Sample ID: **24111363-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197943**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E903.0** **E903-904** Analysis Date: **11/29/2024** SeqNo: **5352735**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80535**

Sample ID: **MB-80535** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198153**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E904.0** **E903-904** Analysis Date: **12/3/2024** SeqNo: **5358242**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-80535** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198153**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E904.0** **E903-904** Analysis Date: **12/3/2024** SeqNo: **5358243**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.46	1.00	5.000	0	89.2	50	130				
Yield	0.970			0	0						

Sample ID: **LCSD-80535** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198153**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E904.0** **E903-904** Analysis Date: **12/3/2024** SeqNo: **5358244**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	5.32	1.00	5.000	0	106	50	130	4.460	17.6	20	
Yield	0.970			0	0			0.9700	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80535**

Sample ID: **24111317-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198153**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E904.0** **E903-904** Analysis Date: **12/3/2024** SeqNo: **5358249**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			0.7500	28.6		

Sample ID: **24111607-001DDUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198153**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E904.0** **E903-904** Analysis Date: **12/3/2024** SeqNo: **5358269**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	0.910			0	0			1.000	9.42		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80535**

Sample ID: **MB-80535**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/23/2024**	RunNo: **198160**
Client ID: **BatchQC**	Batch ID: **80535**	TestNo: **E903.0**	**E903-904**	Analysis Date: **12/4/2024**	SeqNo: **5358431**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	0.990										

Sample ID: **LCS-80535**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/23/2024**	RunNo: **198160**
Client ID: **BatchQC**	Batch ID: **80535**	TestNo: **E903.0**	**E903-904**	Analysis Date: **12/4/2024**	SeqNo: **5358432**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.81	1.00	5.000	0	116	70	130				

Sample ID: **LCSD-80535**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/23/2024**	RunNo: **198160**
Client ID: **BatchQC**	Batch ID: **80535**	TestNo: **E903.0**	**E903-904**	Analysis Date: **12/4/2024**	SeqNo: **5358433**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.22	1.00	5.000	0	104	70	130	5.810	10.7	20	

Sample ID: **24111317-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/23/2024**	RunNo: **198160**
Client ID: **BatchQC**	Batch ID: **80535**	TestNo: **E903.0**	**E903-904**	Analysis Date: **12/4/2024**	SeqNo: **5358438**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80535**

Sample ID: **24111317-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198160**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E903.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5358438**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							0.8200	19.8	0	

Sample ID: **24111607-001DDUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198160**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E903.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5358458**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	0.980							1.000	2.02	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

24111575

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

17.4-0.0=17.4°C
17.2-0.0=17.2°C
17.3-0.0=17.3°C
CS intact 11/18/24

Cooler Temp: 17.2-17.4 (Sampler: Client QC Level: 2 Fedex, Cooler

Project# 24110120

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site.

Contact: Shelly Hennessy
Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT
Billing/PO: 37434
Phone: (618) 344-1004 ext. 36

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228	CPM							pH			
	24110120-001	11/11/24 1103	HNO3	Groundwater	✔	32							1			
	24110120-002	11/11/24 1144	HNO3	Groundwater	✔	22							1			
	24110120-003	11/11/24 1221	HNO3	Groundwater	✔	14							1			
	24110120-004	11/11/24 1255	HNO3	Groundwater	✔	30							1			
	24110120-005	11/11/24 1338	HNO3	Groundwater	✔	30							1			
	24110120-006	11/11/24 1428	HNO3	Groundwater	✔	40							1			
	24110120-007	11/11/24 1027	HNO3	Groundwater	✔	36							1			
	24110120-008	11/13/24 1107	HNO3	Groundwater	✔	36							1			
	24110120-009	11/13/24 1315	HNO3	Groundwater	✔	42							1			
	24110120-010	11/13/24 1230	HNO3	Groundwater	✔	28							1			
	24110120-011	11/12/24 1307	HNO3	Groundwater	✔	30							1			

*Relinquished By	Date/Time	Received By	Date/Time
Omar Olivares			11/20/24, 1300

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights. Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

17.4-0.0= 17.4°C
17.2-0.0= 17.2°C
17.3-0.0= 17.3°C

Cooler Temp: 17.2-17.4°C Sampler: Client QC Level: 2

Fedex, Cooler
CS intact 11/18/24

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site.

Project# 24110120

Contact: Shelly Hennessy Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT Billing/PO: 37434 Phone: (618) 344-1004 ext. 36

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228		cpm					pH				
	24110120-012	11/12/24 1001	HNO3	Groundwater	✔		24					1				
	24110120-013	11/12/24 1049	HNO3	Groundwater	✔		32					1				
	24110120-014	11/12/24 1125	HNO3	Groundwater	✔		32					1				
	24110120-015	11/12/24 1349	HNO3	Groundwater	✔		26					1				
	24110120-016	11/12/24 1209	HNO3	Groundwater	✔		22					1				
	24110120-017	11/13/24 1340	HNO3	Groundwater	✔		40					1				
	24110120-018	11/13/24 1207	HNO3	Groundwater	✔		28					1				
	24110120-019	11/13/24 1135	HNO3	Groundwater	✔		26					1				
	24110120-020	11/13/24 1037	HNO3	Groundwater	✔		20					1				
			HNO3	Groundwater												
			HNO3	Groundwater												

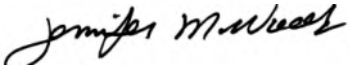
*Relinquished By	Date/Time	Received By	Date/Time
Vince Delores			11/20/24, 1300

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24111575 RcptNo: 1

Logged by:	Anthony W. Britton	11/20/2024 1:00:00 PM	
Completed By:	Anthony W. Britton	11/21/2024 1:24:10 PM	
Reviewed By:	Jennifer Woolf	11/26/2024 11:15:22 AM	

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐
   No. Seal Date: 11/18/2024 Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	17.4	Good	Yes		11/18/2024	

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24111575 RcptNo: 1

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
2	17.2	Good	Yes		11/18/2024	
3	17.3	Good	Yes		11/18/2024	

December 09, 2024

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: FGDS Landfill **WorkOrder:** 24110121

Dear Eric Staley:

TEKLAB, INC received 12 samples on 11/13/2024 3:45:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

Client: City Water, Light & Power
Client Project: FGDS Landfill

Work Order: 24110121
Report Date: 09-Dec-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	19
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 24110121

Client Project: FGDS Landfill **Report Date:** 09-Dec-24

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Definitions

Client: City Water, Light & Power
Work Order: 24110121
Client Project: FGDS Landfill
Report Date: 09-Dec-24

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: FGDS Landfill

Work Order: 24110121
Report Date: 09-Dec-24

Cooler Receipt Temp: 10.9 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 & -228 analysis was performed by Summit Environmental Technologies. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power **Work Order:** 24110121

Client Project: FGDS Landfill **Report Date:** 09-Dec-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	12/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: City Water, Light & Power **Work Order:** 24110121

Client Project: FGDS Landfill **Report Date:** 09-Dec-24

Lab ID: 24110121-006 **Client Sample ID:** G120

Matrix: GROUNDWATER **Collection Date:** 11/13/2024 11:18

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**502.73**	ft	1	11/13/2024 11:18	R356376
Depth to water	*	-5.00		**16.72**	ft	1	11/13/2024 11:18	R356376
Depth to water from measuring point	*	0		**16.72**	ft	1	11/13/2024 11:18	R356376
Elevation of groundwater surface	*	0		**536.38**	ft	1	11/13/2024 11:18	R356376
Measuring Point Elevation	*	0		**553.10**	ft	1	11/13/2024 11:18	R356376
Measuring Point Height Above Land Surface	*	0		**0**	ft	1	11/13/2024 11:18	R356376
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**30**	NTU	1	11/13/2024 11:18	R356376
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.2**	°F	1	11/13/2024 11:18	R356376
SW-846 9040B								
pH, Field	*	1.00		**6.55**		1	11/13/2024 11:18	R356376
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1380**	µmhos/cm @25C	1	11/13/2024 11:18	R356376
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	100		**1430**	mg/L	5	11/19/2024 14:17	R356516
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/15/2024 10:39	R356222
Chloride	NELAP	5.00		**37.4**	mg/L	10	11/15/2024 10:39	R356222
Sulfate	NELAP	10.0		**565**	mg/L	10	11/15/2024 10:39	R356222
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.565**	mg/L	1	11/18/2024 12:15	231260
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/18/2024 12:15	231260
Boron	NELAP	0.0200		**7.50**	mg/L	1	11/18/2024 12:15	231260
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/18/2024 12:15	231260
Calcium	NELAP	0.100		**263**	mg/L	1	11/18/2024 12:15	231260
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/18/2024 12:15	231260
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/18/2024 12:15	231260
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/18/2024 12:15	231260
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/18/2024 12:15	231260
Sample result(s) for Ca exceed 10 times the CCB. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/20/2024 4:12	231194
Arsenic	NELAP	0.0010		**0.0119**	mg/L	5	11/20/2024 4:12	231194
Lithium	*	0.0030		**0.0086**	mg/L	5	11/20/2024 11:11	231194
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/20/2024 4:12	231194
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/20/2024 4:12	231194
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/18/2024 12:16	231196
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	11/27/2024 0:00	R357220
Radium-228	*	0		**See Attached**	pci/L	1	11/27/2024 0:00	R357220

Client: City Water, Light & Power **Work Order:** 24110121

Client Project: FGDS Landfill **Report Date:** 09-Dec-24

Lab ID: 24110121-009 **Client Sample ID:** AW-1

Matrix: GROUNDWATER **Collection Date:** 11/11/2024 12:06

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**500.79**	ft	1	11/11/2024 12:06	R356376
Depth to water	*	-5.00		**11.79**	ft	1	11/11/2024 12:06	R356376
Depth to water from measuring point	*	0		**14.54**	ft	1	11/11/2024 12:06	R356376
Elevation of groundwater surface	*	0		**541.06**	ft	1	11/11/2024 12:06	R356376
Measuring Point Elevation	*	0		**555.60**	ft	1	11/11/2024 12:06	R356376
Measuring Point Height Above Land Surface	*	0		**2.75**	ft	1	11/11/2024 12:06	R356376
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**19**	NTU	1	11/11/2024 12:06	R356376
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.6**	°F	1	11/11/2024 12:06	R356376
SW-846 9040B								
pH, Field	*	1.00		**6.56**		1	11/11/2024 12:06	R356376
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1410**	µmhos/cm @25C	1	11/11/2024 12:06	R356376
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1100**	mg/L	2.5	11/14/2024 12:25	R356260
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/13/2024 20:15	R355975
Chloride	NELAP	5.00		**37.3**	mg/L	10	11/13/2024 20:15	R355975
Sulfate	NELAP	10.0		**388**	mg/L	10	11/13/2024 20:15	R355975
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.446**	mg/L	1	11/12/2024 19:52	231056
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/12/2024 19:52	231056
Boron	NELAP	0.0200		**8.91**	mg/L	1	11/12/2024 19:52	231056
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2024 19:52	231056
Calcium	NELAP	0.100		**193**	mg/L	1	11/12/2024 19:52	231056
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 19:52	231056
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 19:52	231056
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2024 19:52	231056
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/12/2024 19:52	231056
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	B	**< 0.0010**	mg/L	5	11/16/2024 1:56	231056
Arsenic	NELAP	0.0010		**0.168**	mg/L	5	11/16/2024 7:57	231056
Lithium	*	0.0030		**0.0113**	mg/L	5	11/20/2024 10:15	231056
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/16/2024 7:57	231056
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/18/2024 16:43	231056
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
Contamination present in the MBLK. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/14/2024 13:20	231146
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357220
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357220

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 24110121
Client Project: FGDS Landfill
Report Date: 09-Dec-24

Carrier: Brett Gillihan
Received By: JMD

Completed by: Amber Dilallo
On: 11-Nov-24

Reviewed by: Ellie Hopkins
On: 14-Nov-24

Pages to follow: Chain of custody 4 Extra pages included 42

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	10.9	
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐	
Chain of custody present?	Yes ☑	No ☐				
Chain of custody signed when relinquished and received?	Yes ☑	No ☐				
Chain of custody agrees with sample labels?	Yes ☑	No ☐				
Samples in proper container/bottle?	Yes ☑	No ☐				
Sample containers intact?	Yes ☑	No ☐				
Sufficient sample volume for indicated test?	Yes ☑	No ☐				
All samples received within holding time?	Yes ☑	No ☐				
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐			
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐				

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

pH strip #96651. - JD/amberdilallo - 11/11/2024 4:58:57 PM

Samples were received on 11/13/24 at 15:45 on ice [10.5C - LTG#5]. ph strip #96651. Additional nitric acid (100984) was needed for P07D upon arrival at the laboratory.- lhenson - 11/14/2024 8:39:22 AM

CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24110121

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [x] ICE [ ] BLUE ICE [ ] NO ICE 1.2.9 °C 5
Preserved in: [ ] LAB [x] FIELD FOR LAB USE ONLY
LAB NOTES: PA 96051
SD 11/11/24

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [x] No
Are these samples known to be hazardous? [ ] Yes [x] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [x] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring 4Q2023-3Q2025
RW-3 report data from Ash Pond sampling event. 24110120-001

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME
Brett Gillihan

RESULTS REQUESTED
[x] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24110121-001	R101	11-11-24 1026	Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	G110		Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	R111	11/11/24 1129	Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	G112	11/11/24 1227	Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	G113	11-11-24 1116	Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	G120		Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	G121	11-11-24 1330	Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	G122	11-11-24 1410	Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AW-1	11-11-24 1206	Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AW-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	RW-3	11-11-24 1103	Groundwater	0	0								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
Brett Gillihan	11-11-24 1610	Jackie Davis	11/11/24 16:10

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24110124

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring 4Q2023-3Q2025

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24110124 - 012	P07D		Groundwater	1	2								✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
[signature]	11-11 / 1610	Jackie Davis	11/11/24 16:10

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24110121

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 10.5°C 5
Preserved in: ☒ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES: PW 96057
added HNO3 (1009849) pH<2 LM 11/14/24

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring 4Q2023-3Q2025
RW-3 report data from Ash Pond sampling event. 24110120-001

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME
T Carroll

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24110121-001	R101		Groundwater	1	2								✔	✔	✔	✔	✔	✔
002	G110	11/13/24 1024	Groundwater	1	2								✔	✔	✔	✔	✔	✔
003	R111		Groundwater	1	2								✔	✔	✔	✔	✔	✔
004	G112		Groundwater	1	2								✔	✔	✔	✔	✔	✔
005	G113		Groundwater	1	2								✔	✔	✔	✔	✔	✔
006	G120	11/13/24 1118	Groundwater	1	2								✔	✔	✔	✔	✔	✔
007	G121		Groundwater	1	2								✔	✔	✔	✔	✔	✔
008	G122		Groundwater	1	2								✔	✔	✔	✔	✔	✔
009	AW-1		Groundwater	1	2								✔	✔	✔	✔	✔	✔
010	AW-2	11/13/24 1238	Groundwater	1	2								✔	✔	✔	✔	✔	✔
011	RW-3		Groundwater	0	0								✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
	11-13/1545		11/13/24 1545

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24110121

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power

Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building

City/State/Zip: Springfield IL 62712

Contact: Eric Staley Phone: (217) 757-8610

Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No

Are these samples known to be hazardous? ☐ Yes ☑ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C

Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY

LAB NOTES:

Client Comments:

*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring 4Q2023-3Q2025

PROJECT NAME/NUMBER

FGDS Landfill

SAMPLE COLLECTOR'S NAME

TCarroll

RESULTS REQUESTED

☑ Standard ☐ 1-2 Day (100% Surcharge)

☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24110121 - 012	P07D	11/13/24 1206	Groundwater	1	2								✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
	11-13/1545		11/13/24 1545

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	G120
Project Location:	Springfield, IL	**Sample ID:**	006
W.O. Number (s):	24110121	**Date (s):**	11/13/2024

Field Team Members

Name: Tracy Carroll Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 49 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE ☑ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/13/2024 10:57

Static Water Level: 16.72 feet below TOC

Total Depth: 50.37 feet below TOC

Water Column: 33.65 feet

Purging Activities

Purged By: TC Purge Date: 11/13/2024

Purge Method: Submersible Pump Well Diameter: 2"

Purge Volume Calculation (L): 33.65 ft. x 0.022 = 0.74 L x 3 Vol. = 2.22 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 8.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:57	0.0	381	purge start time						
11:09	4.6	↓	6.55	1,379.10	15.07	0.94	-166.80	19.19	
11:12	5.7		6.55	1,377.70	15.21	0.94	-166.70	20.28	
11:15	6.9		6.55	1,377.10	15.40	0.96	-161.80	26.04	
11:18	8.0		6.55	1,381.20	15.65	0.93	-164.60	29.66	

Sampling Activities

Sampled By: TC Sample Date/Time: 11/13/2024 11:18

Sample Method: Low Flow Sample Equipment: Submersible Pump

Sample Parameters: 6.55 pH 1,381.20 Spec. Cond. 15.65 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 17.38 feet below TOC Drawdown: 0.66 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45720

Form Completed By: Tracy Carroll **Date:** 11/13/2024

Field Data Sheet

Project Name: FGDS Landfill
Project Location: Springfield, IL
W.O. Number (s): 24110121
Monitoring Point: AW-1
Sample ID: 009
Date (s): 11/11/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 60 °F
Wind Direction: ☐ N ☐ S ☐ W ☑ E ☐ SE ☐ SW ☐ NE ☐ NW
Precipitation: ☑ None ☐ Light ☐ Heavy
Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/11/2024 11:39
Static Water Level: 14.54 feet below TOC
Total Depth: 54.81 feet below TOC
Water Column: 40.27 feet

Purging Activities

Purged By: BG Purge Date: 11/11/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 40.27 ft. x 0.022 = 0.89 L x 3 Vol. = 2.67 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 4.50 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:39	0.0	167	purge start time						
11:51	2.0	↓	6.61	1,402.90	15.51	1.63	-108.90	22.99	
11:54	2.5		6.58	1,405.40	15.51	1.47	-108.00	14.38	
11:57	3.0		6.57	1,404.70	15.44	1.35	-107.00	14.62	
12:00	3.5		6.57	1,405.60	15.35	1.24	-106.70	22.00	
12:03	4.0		6.56	1,405.40	15.33	1.15	-106.90	17.79	
12:06	4.5		6.56	1,408.20	15.33	1.08	-107.20	19.26	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/11/2024 12:06
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.56 pH 1,408.20 Spec. Cond. 15.33 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 15.42 feet below TOC Drawdown: 0.88 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Brett Gillihan **Date:** 11/11/2024

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

December 06, 2024

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 24110121

Order No.: 24111568

Dear Shelly Hennessy:

Summit Environmental Technologies, Inc. received 12 sample(s) on 11/20/2024 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Case Narrative

WO#: **24111568**
Date: **12/6/2024**

CLIENT: TEKLAB Inc,
Project: 24110121

WorkOrder Narrative:
24111568: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

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Qualifiers and Acronyms

WO#: **24111568**
Date: **12/6/2024**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Workorder Sample Summary

WO#: **24111568**

06-Dec-24

CLIENT: TEKLAB Inc,
Project: 24110121

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24111568-001	24110121-001		11/11/2024 10:26:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111568-002	24110121-002		11/13/2024 10:24:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111568-003	24110121-003		11/11/2024 11:29:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111568-004	24110121-004		11/11/2024 12:27:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111568-005	24110121-005		11/11/2024 11:16:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111568-006	24110121-006		11/13/2024 11:18:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111568-007	24110121-007		11/11/2024 1:30:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111568-008	24110121-008		11/11/2024 2:10:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111568-009	24110121-009		11/11/2024 12:06:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111568-010	24110121-010		11/11/2024 12:38:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111568-011	24110121-011		11/11/2024 11:03:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111568-012	24110121-012		11/13/2024 12:06:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water

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DATES REPORT

WO#: **24111568**

06-Dec-24

Client: TEKLAB Inc,
Project: 24110121

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24111568-001A	24110121-001	11/11/2024 10:26:00 AM	Non-Potable Water	Radium-226 (EPA 903.0)		11/22/2024 11:34:00 AM	11/29/2024 9:41:00 AM
				Radium-228 (EPA 904.0)		11/22/2024 11:34:00 AM	11/27/2024 2:09:00 PM
24111568-002A	24110121-002	11/13/2024 10:24:00 AM		Radium-226 (EPA 903.0)		11/22/2024 11:34:00 AM	11/29/2024 9:41:00 AM
				Radium-228 (EPA 904.0)		11/22/2024 11:34:00 AM	11/27/2024 2:09:00 PM
24111568-003A	24110121-003	11/11/2024 11:29:00 AM		Radium-226 (EPA 903.0)		11/22/2024 11:34:00 AM	11/29/2024 9:41:00 AM
				Radium-228 (EPA 904.0)		11/22/2024 11:34:00 AM	11/27/2024 2:09:00 PM
24111568-004A	24110121-004	11/11/2024 12:27:00 PM		Radium-226 (EPA 903.0)		11/22/2024 11:34:00 AM	11/29/2024 9:41:00 AM
				Radium-228 (EPA 904.0)		11/22/2024 11:34:00 AM	11/27/2024 2:09:00 PM
24111568-005A	24110121-005	11/11/2024 11:16:00 AM		Radium-226 (EPA 903.0)		11/22/2024 11:34:00 AM	11/29/2024 9:41:00 AM
				Radium-228 (EPA 904.0)		11/22/2024 11:34:00 AM	11/27/2024 2:09:00 PM
24111568-006A	24110121-006	11/13/2024 11:18:00 AM		Radium-226 (EPA 903.0)		11/22/2024 11:34:00 AM	11/29/2024 9:41:00 AM
				Radium-228 (EPA 904.0)		11/22/2024 11:34:00 AM	11/27/2024 2:09:00 PM
24111568-007A	24110121-007	11/11/2024 1:30:00 PM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111568-008A	24110121-008	11/11/2024 2:10:00 PM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111568-009A	24110121-009	11/11/2024 12:06:00 PM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111568-010A	24110121-010	11/11/2024 12:38:00 PM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111568-011A	24110121-011	11/11/2024 11:03:00 AM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111568-012A	24110121-012	11/13/2024 12:06:00 PM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM

Original

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DATES REPORT

WO#: **24111568**

06-Dec-24

Client: TEKLAB Inc,

Project: 24110121

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24111568-012A	24110121-012	11/13/2024 12:06:00 PM	Non-Potable Water	Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM

Original

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Analytical Report

(consolidated)

WO#: **24111568**

Date Reported: **12/6/2024**

CLIENT: TEKLAB Inc,
Project: 24110121
Lab ID: 24111568-006
Client Sample ID: 24110121-006

Collection Date: 11/13/2024 11:18:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	1.60	1.00		pCi/L	± 0.220	1	11/29/2024 9:41:00 AM
Yield	1.00					1	11/29/2024 9:41:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	1.92	1.00		pCi/L	± 0.530	1	11/27/2024 2:09:00 PM
Yield	1.00					1	11/27/2024 2:09:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **24111568**

Date Reported: **12/6/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/11/2024 12:06:00 PM
Project: 24110121
Lab ID: 24111568-009
Matrix: NON-POTABLE WATER
Client Sample ID: 24110121-009

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.240	1	12/4/2024 9:31:52 AM
Yield	0.570					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	1.17	1.00		pCi/L	± 1.12	1	12/3/2024 4:29:04 PM
Yield	0.470					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **24111568**

06-Dec-24

Client: TEKLAB Inc,
Project: 24110121 **BatchID:** **80533**

Sample ID: **MB-80533** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197941**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E904.0** **E903-904** Analysis Date: **11/27/2024** SeqNo: **5352672**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-80533** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197941**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E904.0** **E903-904** Analysis Date: **11/27/2024** SeqNo: **5352673**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.41	1.00	5.000	0	68.2	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-80533** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197941**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E904.0** **E903-904** Analysis Date: **11/27/2024** SeqNo: **5352674**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.37	1.00	5.000	0	67.4	50	130	3.410	1.18	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24111568**

06-Dec-24

Client: TEKLAB Inc,
Project: 24110121 **BatchID:** **80533**

Sample ID: **24111225-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197941**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E904.0** **E903-904** Analysis Date: **11/27/2024** SeqNo: **5352689**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	1.00			0	0			1.000	0		

Sample ID: **24111363-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197941**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E904.0** **E903-904** Analysis Date: **11/27/2024** SeqNo: **5352692**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.11	1.00		0	0			0.9300	17.6	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24111568**

06-Dec-24

Client: TEKLAB Inc,
Project: 24110121 **BatchID:** **80533**

Sample ID: **MB-80533** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197943**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E903.0** **E903-904** Analysis Date: **11/29/2024** SeqNo: **5352721**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-80533** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197943**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E903.0** **E903-904** Analysis Date: **11/29/2024** SeqNo: **5352722**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.06	1.00	5.000	0	101	70	130				

Sample ID: **LCSD-80533** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197943**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E903.0** **E903-904** Analysis Date: **11/29/2024** SeqNo: **5352723**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.18	1.00	5.000	0	83.6	70	130	5.060	19.0	20	

Sample ID: **24111225-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197943**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E903.0** **E903-904** Analysis Date: **11/29/2024** SeqNo: **5352733**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

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QC SUMMARY REPORT

WO#: **24111568**

06-Dec-24

Client: TEKLAB Inc,
Project: 24110121 **BatchID:** **80533**

Sample ID: **24111225-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197943**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E903.0** **E903-904** Analysis Date: **11/29/2024** SeqNo: **5352733**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Sample ID: **24111363-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197943**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E903.0** **E903-904** Analysis Date: **11/29/2024** SeqNo: **5352735**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24111568**

06-Dec-24

Client: TEKLAB Inc,
Project: 24110121 **BatchID:** **80535**

Sample ID: **MB-80535** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198153**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E904.0** **E903-904** Analysis Date: **12/3/2024** SeqNo: **5358242**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-80535** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198153**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E904.0** **E903-904** Analysis Date: **12/3/2024** SeqNo: **5358243**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.46	1.00	5.000	0	89.2	50	130				
Yield	0.970			0	0						

Sample ID: **LCSD-80535** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198153**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E904.0** **E903-904** Analysis Date: **12/3/2024** SeqNo: **5358244**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	5.32	1.00	5.000	0	106	50	130	4.460	17.6	20	
Yield	0.970			0	0			0.9700	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24111568**

06-Dec-24

Client: TEKLAB Inc,
Project: 24110121 **BatchID:** **80535**

Sample ID: **24111317-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198153**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E904.0** **E903-904** Analysis Date: **12/3/2024** SeqNo: **5358249**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			0.7500	28.6		

Sample ID: **24111607-001DDUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198153**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E904.0** **E903-904** Analysis Date: **12/3/2024** SeqNo: **5358269**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	0.910			0	0			1.000	9.42		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

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QC SUMMARY REPORT

WO#: **24111568**

06-Dec-24

Client: TEKLAB Inc,
Project: 24110121 **BatchID:** **80535**

Sample ID: **MB-80535** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198160**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E903.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5358431**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	0.990										

Sample ID: **LCS-80535** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198160**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E903.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5358432**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.81	1.00	5.000	0	116	70	130				

Sample ID: **LCSD-80535** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198160**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E903.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5358433**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.22	1.00	5.000	0	104	70	130	5.810	10.7	20	

Sample ID: **24111317-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198160**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E903.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5358438**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

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QC SUMMARY REPORT

WO#: **24111568**

06-Dec-24

Client: TEKLAB Inc,
Project: 24110121 **BatchID:** **80535**

Sample ID: **24111317-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198160**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E903.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5358438**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							0.8200	19.8	0	

Sample ID: **24111607-001DDUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198160**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E903.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5358458**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	0.980							1.000	2.02	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

24111568

Teklab Inc 17.2-0.0= 17.2°C
5445 Horseshoe Lake Road 17.7-0.0= 17.7°C
Collinsville, IL 62234

Cooler Temp: 17.2-17.7°C Sampler: Client QC Level: 2

Fedex, Cooler
CS intact 11/18/24

Project# 24110121

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site. 24110121-011 report from 24110120-001.

Contact: Shelly Hennessy Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT Billing/PO: 37435 Phone: (618) 344-1004 ext. 36

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228		cpm					PH				
	24110121-001	11/11/24 1026	HNO3	Groundwater	✔		20					1				
	24110121-002	11/13/24 1024	HNO3	Groundwater	✔		42					1				
	24110121-003	11/11/24 1129	HNO3	Groundwater	✔		32					1				
	24110121-004	11/11/24 1227	HNO3	Groundwater	✔		24					1				
	24110121-005	11/11/24 1116	HNO3	Groundwater	✔		34					1				
	24110121-006	11/13/24 1118	HNO3	Groundwater	✔		32					1				
	24110121-007	11/11/24 1330	HNO3	Groundwater	✔		36					1				
	24110121-008	11/11/24 1410	HNO3	Groundwater	✔		22					1				
	24110121-009	11/11/24 1206	HNO3	Groundwater	✔		32					1				
	24110121-010	11/11/24 1238	HNO3	Groundwater	✔		18					1				
	24110121-011	11/11/24 1103	HNO3	Groundwater	✔		Did not receive									

*Relinquished By	Date/Time	Received By	Date/Time
			11/20/24, 1300

Teklab maintains a strict policy of client confidentiality and as such does not provide client or sampler information without proper authorization. and proprietary rights. Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

17.2-0.0 = 17.2c
17.7-0.0 = 17.7c

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Fedex, cooler
CS intact 11/18/24

Cooler Temp: 17.2-17.7 c Sampler: Client QC Level: 2

Project# 24110121

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site. 24110121-011 report from 24110120-001.

Contact: Shelly Hennessy Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT Billing/PO: 37435 Phone: (618) 344-1004 ext. 36

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228												
						cpm						pCi					
	24110121-012	11/13/24 1206	HNO3	Groundwater	✓	30						1					
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													

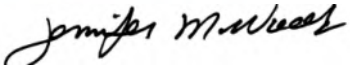
*Relinquished By	Date/Time	Received By	Date/Time
Brian Dilorello			11/20/24 1300

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Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24111568 RcptNo: 1

Logged by:	Anthony W. Britton	11/20/2024 1:00:00 PM	
Completed By:	Anthony W. Britton	11/21/2024 1:02:25 PM	
Reviewed By:	Jennifer Woolf	11/26/2024 10:57:53 AM	

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐
   No. Seal Date: 11/18/2024 Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	17.7	Good	Yes		11/18/2024	

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Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24111568 RcptNo: 1

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
2	17.2	Good	Yes		11/18/2024	