



**Southern Illinois
Power Cooperative**

11543 Lake of Egypt Road
Marion, IL 62959
(618) 964-1448 Fax (618) 964-1867

November 1, 2021

Illinois Environmental Protection Agency
DWPC - Permits MC#15

Attn: Part 845 Coal Combustion Residuals Rule Submittal
1021 North Grand Avenue East
Springfield, IL 62794-9276

**RE: SOUTHERN ILLINOIS POWER COOPERATIVE
MARION POWER PLANT
FORMER EMERY POND
DATA TRANSMITTAL OCTOBER 2021**

Dear Program Reviewer:

As consistent with 35 Illinois Administrative Code Part 845.610(b)(3)(D), please find enclosed the groundwater monitoring data collected in August 2021. This is the second round of data collected since the closure by removal of the former Emery Pond was completed on April 5, 2021. Southern Illinois Power Cooperative will determine compliance with the groundwater protection standards following the fourth post-closure groundwater monitoring event, currently scheduled to be completed within the first quarter (January-March) of 2022.

Should you have any questions or comments regarding this Quarterly Progress Report, do not hesitate to contact me via my email address wwatson@sipower.com.

Sincerely,

Wendell Watson
Director of Environmental Services
Southern Illinois Power Cooperative

cc: Mark Haney - Golder Associates
Danielle Sylvia - Golder Associates



SIPC is an equal opportunity provider and employer.

October 01, 2021

Jason McLaurin
Southern Illinois Power Cooperation
11543 Lake of Egypt Road
Marion, IL 62959
TEL: (618) 964-1448
FAX:



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

RE: Groundwater Monitoring Q3 2021

WorkOrder: 21081723

Dear Jason McLaurin:

TEKLAB, INC received 5 samples on 8/31/2021 7:55:00 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,



Elizabeth A. Hurley
Project Manager
(618)344-1004 ex 33
ehurley@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: Southern Illinois Power Cooperation

Work Order: 21081723

Client Project: Groundwater Monitoring Q3 2021

Report Date: 01-Oct-21

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Chain of Custody	Appended



Definitions

<http://www.teklabinc.com/>

Client: Southern Illinois Power Cooperation

Work Order: 21081723

Client Project: Groundwater Monitoring Q3 2021

Report Date: 01-Oct-21

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

<http://www.teklabinc.com/>

Client: Southern Illinois Power Cooperation

Work Order: 21081723

Client Project: Groundwater Monitoring Q3 2021

Report Date: 01-Oct-21

Qualifiers

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



Case Narrative

<http://www.teklabinc.com/>

Client: Southern Illinois Power Cooperation

Work Order: 21081723

Client Project: Groundwater Monitoring Q3 2021

Report Date: 01-Oct-21

Cooler Receipt Temp: 2.6 °C

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

Radium analysis was performed by Summit Environmental Technologies. See attached 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

Collinsville Air

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

Springfield

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

Chicago

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

Kansas City

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



Accreditations

<http://www.teklabinc.com/>

Client: Southern Illinois Power Cooperation

Work Order: 21081723

Client Project: Groundwater Monitoring Q3 2021

Report Date: 01-Oct-21

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2022	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		3/14/2022	Collinsville
Illinois	IDPH	17584		5/31/2021	Collinsville
Kentucky	UST	0073		1/31/2022	Collinsville
Missouri	MDNR	00930		5/31/2021	Collinsville
Missouri	MDNR	930		1/31/2022	Collinsville



Laboratory Results

<http://www.teklabinc.com/>

Client: Southern Illinois Power Cooperation

Work Order: 21081723

Client Project: Groundwater Monitoring Q3 2021

Report Date: 01-Oct-21

Lab ID: 21081723-001

Client Sample ID: EBG

Matrix: GROUNDWATER

Collection Date: 08/30/2021 13:12

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		29	NTU	1	08/30/2021 13:12	R298688
SW-846 9040B FIELD									
pH	*	0	1.00		6.58		1	08/30/2021 13:12	R298688
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		340	mg/L	1	08/31/2021 16:20	R298433
STANDARD METHODS 4500-CL E (TOTAL) 1997, 2011									
Chloride	NELAP	1	2		17	mg/L	2	09/01/2021 19:52	R298502
SW-846 9036 (TOTAL)									
Sulfate	NELAP	12	20		83	mg/L	2	09/01/2021 19:51	R298501
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.58	mg/L	1	08/31/2021 12:24	R298389
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0469	mg/L	1	09/08/2021 11:10	181540
Boron	NELAP	0.0090	0.020	J	0.010	mg/L	1	09/08/2021 11:10	181540
Calcium	NELAP	0.0350	0.100		12.1	mg/L	1	09/09/2021 13:49	181623
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/10/2021 5:52	181541
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/10/2021 5:52	181541
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/10/2021 5:52	181541
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/13/2021 17:22	181541
Chromium	NELAP	0.0007	0.0015	J	0.0011	mg/L	5	09/10/2021 5:52	181541
Cobalt	NELAP	0.0001	0.0010	J	0.0003	mg/L	5	09/13/2021 17:22	181541
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/10/2021 5:52	181541
Lithium	*	0.0015	0.0030		0.0164	mg/L	5	09/10/2021 5:52	181541
Molybdenum	NELAP	0.0006	0.0015	J	0.0014	mg/L	5	09/10/2021 5:52	181541
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/10/2021 5:52	181541
Thallium	NELAP	0.0010	0.0020		0.0054	mg/L	5	09/13/2021 17:22	181541
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	09/08/2021 9:44	181545
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	09/22/2021 0:00	R299717
Radium-228	*	0	0		See Attached	pci/L	1	09/22/2021 0:00	R299717



Laboratory Results

<http://www.teklabinc.com/>

Client: Southern Illinois Power Cooperation

Work Order: 21081723

Client Project: Groundwater Monitoring Q3 2021

Report Date: 01-Oct-21

Lab ID: 21081723-002

Client Sample ID: EP-1

Matrix: GROUNDWATER

Collection Date: 08/30/2021 12:41

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		23	NTU	1	08/30/2021 12:41	R298688
SW-846 9040B FIELD									
pH	*	0	1.00		6.12		1	08/30/2021 12:41	R298688
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		2520	mg/L	1	08/31/2021 16:21	R298433
STANDARD METHODS 4500-CL E (TOTAL) 1997, 2011									
Chloride	NELAP	5	10		48	mg/L	10	09/01/2021 19:55	R298502
SW-846 9036 (TOTAL)									
Sulfate	NELAP	307	500		1640	mg/L	50	09/01/2021 19:59	R298501
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.19	mg/L	1	08/31/2021 12:26	R298389
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0200	mg/L	1	09/08/2021 13:06	181540
Boron	NELAP	0.0090	0.0200		0.931	mg/L	1	09/08/2021 13:06	181540
Calcium	NELAP	0.0350	0.100		483	mg/L	1	09/08/2021 13:06	181540
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010	J	0.0005	mg/L	5	09/10/2021 7:14	181541
Arsenic	NELAP	0.0004	0.0010	J	0.0005	mg/L	5	09/10/2021 7:14	181541
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/10/2021 7:14	181541
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/13/2021 17:48	181541
Chromium	NELAP	0.0007	0.0015		0.0019	mg/L	5	09/10/2021 7:14	181541
Cobalt	NELAP	0.0001	0.0010	J	0.0010	mg/L	5	09/13/2021 17:48	181541
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/10/2021 7:14	181541
Lithium	*	0.0015	0.0030		0.0127	mg/L	5	09/10/2021 7:14	181541
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	09/10/2021 7:14	181541
Selenium	NELAP	0.0006	0.0010		0.0014	mg/L	5	09/10/2021 7:14	181541
Thallium	NELAP	0.0010	0.0020		0.0042	mg/L	5	09/13/2021 17:48	181541
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	09/08/2021 10:14	181545
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	09/22/2021 0:00	R299717
Radium-228	*	0	0		See Attached	pci/L	1	09/22/2021 0:00	R299717



Laboratory Results

<http://www.teklabinc.com/>

Client: Southern Illinois Power Cooperation

Work Order: 21081723

Client Project: Groundwater Monitoring Q3 2021

Report Date: 01-Oct-21

Lab ID: 21081723-003

Client Sample ID: EP-2

Matrix: GROUNDWATER

Collection Date: 08/30/2021 12:12

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		10	NTU	1	08/30/2021 12:12	R298688
SW-846 9040B FIELD									
pH	*	0	1.00		5.91		1	08/30/2021 12:12	R298688
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		2370	mg/L	1	08/31/2021 16:22	R298433
STANDARD METHODS 4500-CL E (TOTAL) 1997, 2011									
Chloride	NELAP	5	10		34	mg/L	10	09/01/2021 20:03	R298502
SW-846 9036 (TOTAL)									
Sulfate	NELAP	307	500		1590	mg/L	50	09/01/2021 20:07	R298501
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.40	mg/L	1	08/31/2021 12:28	R298389
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.0198	mg/L	1	09/08/2021 13:10	181540
Boron	NELAP	0.0090	0.0200		0.499	mg/L	1	09/08/2021 13:10	181540
Calcium	NELAP	0.0350	0.100		363	mg/L	1	09/08/2021 13:10	181540
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/10/2021 7:21	181541
Arsenic	NELAP	0.0004	0.0010	J	0.0005	mg/L	5	09/10/2021 7:21	181541
Beryllium	NELAP	0.0002	0.0010	J	0.0003	mg/L	5	09/10/2021 7:21	181541
Cadmium	NELAP	0.0002	0.0010		0.0016	mg/L	5	09/13/2021 19:06	181541
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	09/10/2021 7:21	181541
Cobalt	NELAP	0.0001	0.0010		0.0052	mg/L	5	09/13/2021 19:06	181541
Lead	NELAP	0.0006	0.0010	J	0.0007	mg/L	5	09/10/2021 7:21	181541
Lithium	*	0.0015	0.0030		0.0148	mg/L	5	09/10/2021 7:21	181541
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	09/10/2021 7:21	181541
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/10/2021 7:21	181541
Thallium	NELAP	0.0010	0.0020		0.0090	mg/L	5	09/13/2021 19:06	181541
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	09/08/2021 9:49	181545
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	09/22/2021 0:00	R299717
Radium-228	*	0	0		See Attached	pci/L	1	09/22/2021 0:00	R299717



Laboratory Results

<http://www.teklabinc.com/>

Client: Southern Illinois Power Cooperation

Work Order: 21081723

Client Project: Groundwater Monitoring Q3 2021

Report Date: 01-Oct-21

Lab ID: 21081723-004

Client Sample ID: EP-3

Matrix: GROUNDWATER

Collection Date: 08/30/2021 11:59

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		6.8	NTU	1	08/30/2021 11:59	R298688
SW-846 9040B FIELD									
pH	*	0	1.00		6.07		1	08/30/2021 11:59	R298688
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		672	mg/L	1	08/31/2021 16:22	R298433
STANDARD METHODS 4500-CL E (TOTAL) 1997, 2011									
Chloride	NELAP	5	10		129	mg/L	10	09/01/2021 20:13	R298502
SW-846 9036 (TOTAL)									
Sulfate	NELAP	31	50		114	mg/L	5	09/07/2021 16:40	R298662
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.17	mg/L	1	08/31/2021 12:30	R298389
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0007	0.0025		0.101	mg/L	1	09/08/2021 13:14	181540
Boron	NELAP	0.0090	0.0200		0.0750	mg/L	1	09/08/2021 13:14	181540
Calcium	NELAP	0.0350	0.100		35.5	mg/L	1	09/08/2021 13:14	181540
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/10/2021 7:29	181541
Arsenic	NELAP	0.0004	0.0010		0.0076	mg/L	5	09/10/2021 7:29	181541
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/10/2021 7:29	181541
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/13/2021 19:15	181541
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	09/10/2021 7:29	181541
Cobalt	NELAP	0.0001	0.0010		0.0882	mg/L	5	09/13/2021 19:15	181541
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/10/2021 7:29	181541
Lithium	*	0.0015	0.0030		0.0169	mg/L	5	09/10/2021 7:29	181541
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	09/10/2021 7:29	181541
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/10/2021 7:29	181541
Thallium	NELAP	0.0010	0.0020	J	0.0019	mg/L	5	09/13/2021 19:15	181541
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	09/08/2021 9:51	181545
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	09/22/2021 0:00	R299717
Radium-228	*	0	0		See Attached	pci/L	1	09/22/2021 0:00	R299717



Laboratory Results

<http://www.teklabinc.com/>

Client: Southern Illinois Power Cooperation

Work Order: 21081723

Client Project: Groundwater Monitoring Q3 2021

Report Date: 01-Oct-21

Lab ID: 21081723-005

Client Sample ID: EP-4

Matrix: GROUNDWATER

Collection Date: 08/30/2021 11:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		9.8	NTU	1	08/30/2021 11:35	R298688
SW-846 9040B FIELD									
pH	*	0	1.00		5.70		1	08/30/2021 11:35	R298688
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1750	mg/L	1	08/31/2021 16:23	R298433
STANDARD METHODS 4500-CL E (TOTAL) 1997, 2011									
Chloride	NELAP	10	20		446	mg/L	20	09/01/2021 20:24	R298502
SW-846 9036 (TOTAL)									
Sulfate	NELAP	123	200		565	mg/L	20	09/01/2021 20:23	R298501
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10	J	0.09	mg/L	1	08/31/2021 12:32	R298389
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	0.0035	0.0125		0.0270	mg/L	5	09/08/2021 13:17	181540
Boron	NELAP	0.0450	0.100		11.8	mg/L	5	09/08/2021 13:17	181540
Calcium	NELAP	0.175	0.500		162	mg/L	5	09/08/2021 13:17	181540
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/10/2021 7:36	181541
Arsenic	NELAP	0.0004	0.0010		0.0073	mg/L	5	09/10/2021 7:36	181541
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/10/2021 7:36	181541
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/13/2021 19:23	181541
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	09/10/2021 7:36	181541
Cobalt	NELAP	0.0001	0.0010		0.326	mg/L	5	09/13/2021 19:23	181541
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/10/2021 7:36	181541
Lithium	*	0.0015	0.0030	J	0.0023	mg/L	5	09/10/2021 7:36	181541
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	09/10/2021 7:36	181541
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/10/2021 7:36	181541
Thallium	NELAP	0.0010	0.0020	J	0.0012	mg/L	5	09/13/2021 19:23	181541
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	09/08/2021 9:53	181545
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		See Attached	pci/L	1	09/22/2021 0:00	R299717
Radium-228	*	0	0		See Attached	pci/L	1	09/22/2021 0:00	R299717



Quality Control Results

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Client: Southern Illinois Power Cooperation

Work Order: 21081723

Client Project: Groundwater Monitoring Q3 2021

Report Date: 01-Oct-21

SW-846 9040B FIELD

Batch R298688		SampType: LCS		Units							Date Analyzed
SampID: LCS-R298688											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.02	7.000	0	100.3	98.57	101.4	08/30/2021	

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R298433		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	08/31/2021	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	08/31/2021	

Batch R298433		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		980	1000	0	98.0	90	110	08/31/2021	
Total Dissolved Solids		20		986	1000	0	98.6	90	110	08/31/2021	

Batch R298433		SampType: DUP		Units mg/L							RPD Limit: 5	Date Analyzed
SampID: 21081717-001ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		3740				3730	0.32	08/31/2021		

STANDARD METHODS 4500-CL E (TOTAL) 1997, 2011

Batch R298502		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		1		< 1	0.5000	0	0	-100	100	09/01/2021	

Batch R298502		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		1		20	20.00	0	101.4	90	110	09/01/2021	

Batch R298502		SampType: MS		Units mg/L							Date Analyzed
SampID: 21080029-005CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		10		304	200.0	119.4	92.5	85	115	09/01/2021	



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Work Order: 21081723

Client Project: Groundwater Monitoring Q3 2021

Report Date: 01-Oct-21

STANDARD METHODS 4500-CL E (TOTAL) 1997, 2011

Batch R298502		SampType: MSD		Units mg/L				RPD Limit: 15		
SampID: 21080029-005CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		10		298	200.0	119.4	89.2	304.4	2.18	09/01/2021

Batch R298502		SampType: MS		Units mg/L						
SampID: 21081366-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		1		21	20.00	1.930	97.0	85	115	09/01/2021

Batch R298502		SampType: MSD		Units mg/L				RPD Limit: 15		
SampID: 21081366-001AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		1		22	20.00	1.930	100.5	21.33	3.23	09/01/2021

Batch R298502		SampType: MS		Units mg/L						
SampID: 21081723-004AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		10		306	200.0	128.7	88.4	85	115	09/01/2021

Batch R298502		SampType: MSD		Units mg/L				RPD Limit: 15		
SampID: 21081723-004AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		10		303	200.0	128.7	87.1	305.5	0.86	09/01/2021

Batch R298663		SampType: MBLK		Units mg/L						
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		1		< 1	0.5000	0	0	-100	100	09/07/2021

Batch R298663		SampType: LCS		Units mg/L						
SampID: ICV/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		1		21	20.00	0	102.7	90	110	09/07/2021

Batch R298663		SampType: MS		Units mg/L						
SampID: 21080599-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		2		84	40.00	46.88	93.2	85	115	09/07/2021



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Client: Southern Illinois Power Cooperation

Work Order: 21081723

Client Project: Groundwater Monitoring Q3 2021

Report Date: 01-Oct-21

STANDARD METHODS 4500-CL E (TOTAL) 1997, 2011

Batch R298663		SampType: MSD		Units mg/L		RPD Limit: 15					
SampID: 21080599-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		2		84	40.00	46.88	91.8	84.18	0.70	09/07/2021	

Batch R298663		SampType: MS		Units mg/L		RPD Limit: 15					
SampID: 21080599-005BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		5		133	100.0	37.53	95.5	85	115	09/07/2021	

Batch R298663		SampType: MSD		Units mg/L		RPD Limit: 15					
SampID: 21080599-005BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		5		131	100.0	37.53	93.5	133.0	1.52	09/07/2021	

Batch R298663		SampType: MS		Units mg/L		RPD Limit: 15					
SampID: 21090102-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		1		24	20.00	4.450	95.7	85	115	09/07/2021	

Batch R298663		SampType: MSD		Units mg/L		RPD Limit: 15					
SampID: 21090102-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		1		23	20.00	4.450	94.0	23.59	1.45	09/07/2021	

SW-846 9036 (TOTAL)

Batch R298501		SampType: MBLK		Units mg/L		RPD Limit: 15					
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	09/01/2021	

Batch R298501		SampType: LCS		Units mg/L		RPD Limit: 15					
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		20	20.00	0	99.0	90	110	09/01/2021	



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Work Order: 21081723

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SW-846 9036 (TOTAL)

Batch R298501		SampType: MS		Units mg/L							Date Analyzed
SampID: 21081364-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50		210	100.0	121.0	89.2	85	115	09/01/2021	

Batch R298501		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 21081364-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		50		210	100.0	121.0	88.6	210.2	0.26	09/01/2021		

Batch R298662		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	09/07/2021	

Batch R298662		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		20	20.00	0	97.5	90	110	09/07/2021	

Batch R298662		SampType: MS		Units mg/L							Date Analyzed
SampID: 21080029-005CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		331	200.0	122.0	104.4	85	115	09/08/2021	

Batch R298662		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 21080029-005CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		100		325	200.0	122.0	101.7	330.8	1.62	09/08/2021		

Batch R298662		SampType: MS		Units mg/L							Date Analyzed
SampID: 21080599-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		28	20.00	9.370	92.0	85	115	09/07/2021	

Batch R298662		SampType: MSD		Units mg/L							RPD Limit: 10	Date Analyzed
SampID: 21080599-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		10		28	20.00	9.370	94.3	27.76	1.68	09/07/2021		



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Work Order: 21081723

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Batch R298662		SampType: MS		Units mg/L						
SampID: 21080599-005BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		50		216	100.0	110.1	106.2	85	115	09/07/2021

Batch R298662		SampType: MSD		Units mg/L		RPD Limit: 10				
SampID: 21080599-005BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		50		211	100.0	110.1	100.6	216.2	2.63	09/07/2021

Batch R298662		SampType: MS		Units mg/L						
SampID: 21080636-002AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		459	200.0	283.6	87.9	85	115	09/08/2021

Batch R298662		SampType: MSD		Units mg/L		RPD Limit: 10				
SampID: 21080636-002AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		484	200.0	283.6	100.0	459.3	5.13	09/08/2021

Batch R298662		SampType: MS		Units mg/L						
SampID: 21081723-004AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		50		221	100.0	114.4	106.3	85	115	09/07/2021

Batch R298662		SampType: MSD		Units mg/L		RPD Limit: 10				
SampID: 21081723-004AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		50		207	100.0	114.4	92.7	220.7	6.33	09/07/2021

Batch R298662		SampType: MS		Units mg/L						
SampID: 21090102-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		312	200.0	124.8	93.5	90	110	09/07/2021

Batch R298662		SampType: MSD		Units mg/L		RPD Limit: 10				
SampID: 21090102-001BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		313	200.0	124.8	94.1	311.8	0.43	09/07/2021



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Work Order: 21081723

Client Project: Groundwater Monitoring Q3 2021

Report Date: 01-Oct-21

SW-846 9036 (TOTAL)

Batch R298662 **SampType: MS** Units mg/L
 SampID: 21090262-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		1000		3910	2000	1959	97.3	90	110	09/07/2021

Batch R298662 **SampType: MSD** Units mg/L
 SampID: 21090262-001BMSD

RPD Limit: 10

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		1000		3920	2000	1959	97.8	3905	0.25	09/07/2021

SW-846 9214 (TOTAL)

Batch R298389 **SampType: MBLK** Units mg/L
 SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		< 0.10	0.0370	0	0	-100	100	08/31/2021

Batch R298389 **SampType: LCS** Units mg/L
 SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		0.98	1.000	0	98.4	90	110	08/31/2021

Batch R298389 **SampType: MS** Units mg/L
 SampID: 21081364-003AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		2.58	2.000	0.3360	112.3	75	125	08/31/2021

Batch R298389 **SampType: MSD** Units mg/L
 SampID: 21081364-003AMSD

RPD Limit: 15

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		2.59	2.000	0.3360	112.8	2.582	0.39	08/31/2021

Batch R298389 **SampType: MS** Units mg/L
 SampID: 21081723-005AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		2.17	2.000	0.09400	103.6	75	125	08/31/2021



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SW-846 9214 (TOTAL)

Batch R298389		SampType: MSD		Units mg/L				RPD Limit: 15			
SampID: 21081723-005AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.18	2.000	0.09400	104.3	2.167	0.60	08/31/2021	

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 181540		SampType: MBLK		Units mg/L							
SampID: MBLK-181540											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	09/08/2021	
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	09/08/2021	
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	09/08/2021	

Batch 181540 SampType: LCS Units mg/L

SampID: LCS-181540											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		2.16	2.000	0	107.9	85	115	09/08/2021	
Boron		0.0200		0.532	0.5000	0	106.3	85	115	09/08/2021	
Calcium		0.100		2.64	2.500	0	105.6	85	115	09/08/2021	

Batch 181540 SampType: MS Units mg/L

SampID: 21081723-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		2.17	2.000	0.04690	106.0	75	125	09/08/2021	
Boron		0.0200		0.532	0.5000	0.01050	104.4	75	125	09/08/2021	

Batch 181540 SampType: MSD Units mg/L

SampID: 21081723-001CMSD											
											RPD Limit: 20
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Barium		0.0025		2.12	2.000	0.04690	103.5	2.166	2.34	09/08/2021	
Boron		0.0200		0.521	0.5000	0.01050	102.1	0.5325	2.20	09/08/2021	



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Work Order: 21081723

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SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 181623 **SampType: MBLK** Units mg/L
 SampleID: MBLK-181623

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	09/09/2021
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	09/09/2021
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	09/09/2021
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	09/09/2021
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	09/09/2021
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	09/09/2021

Batch 181623 **SampType: LCS** Units mg/L
 SampleID: LCS-181623

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		2.03	2.000	0	101.5	85	115	09/09/2021
Barium		0.0025		2.07	2.000	0	103.4	85	115	09/09/2021
Boron		0.0200		0.520	0.5000	0	104.0	85	115	09/09/2021
Boron		0.0200		0.512	0.5000	0	102.4	85	115	09/09/2021
Calcium		0.100		2.46	2.500	0	98.5	85	115	09/09/2021
Calcium		0.100		2.55	2.500	0	102.1	85	115	09/09/2021

Batch 181623 **SampType: MS** Units mg/L
 SampleID: 21081723-001CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		14.6	2.500	12.13	96.8	75	125	09/09/2021

Batch 181623 **SampType: MSD** Units mg/L **RPD Limit: 20**
 SampleID: 21081723-001CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		14.9	2.500	12.13	109.2	14.55	2.11	09/09/2021

Batch 181623 **SampType: MS** Units mg/L
 SampleID: 21090125-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0200		1.41	0.5000	0.8936	102.9	75	125	09/09/2021

Batch 181623 **SampType: MSD** Units mg/L **RPD Limit: 20**
 SampleID: 21090125-001BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Boron		0.0200		1.36	0.5000	0.8936	94.1	1.408	3.17	09/09/2021



Quality Control Results

<http://www.teklabinc.com/>

Client: Southern Illinois Power Cooperation

Work Order: 21081723

Client Project: Groundwater Monitoring Q3 2021

Report Date: 01-Oct-21

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 181541 SampType: MBLK Units mg/L

SampID: MBLK-181541

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	09/10/2021
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/10/2021
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	09/10/2021
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/10/2021
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/10/2021
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	09/14/2021
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/10/2021
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	09/10/2021
Molybdenum		0.0015		< 0.0015	0.0006	0	0	-100	100	09/10/2021
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	09/10/2021
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	09/14/2021

Batch 181541 SampType: LCS Units mg/L

SampID: LCS-181541

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.504	0.5000	0	100.8	85	115	09/10/2021
Arsenic		0.0010		0.533	0.5000	0	106.5	85	115	09/10/2021
Beryllium		0.0010		0.0507	0.0500	0	101.4	85	115	09/10/2021
Cadmium		0.0010		0.0538	0.0500	0	107.5	85	115	09/13/2021
Chromium		0.0015		0.203	0.2000	0	101.3	85	115	09/10/2021
Cobalt		0.0010		0.517	0.5000	0	103.4	85	115	09/10/2021
Lead		0.0010		0.547	0.5000	0	109.3	85	115	09/10/2021
Lithium	*	0.0030		0.508	0.5000	0	101.6	85	115	09/10/2021
Molybdenum		0.0015		0.514	0.5000	0	102.8	85	115	09/10/2021
Selenium		0.0010		0.510	0.5000	0	101.9	85	115	09/10/2021
Thallium		0.0020		0.247	0.2500	0	98.8	85	115	09/13/2021



Quality Control Results

<http://www.teklabinc.com/>

Client: Southern Illinois Power Cooperation

Work Order: 21081723

Client Project: Groundwater Monitoring Q3 2021

Report Date: 01-Oct-21

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 181541 SampType: MS Units mg/L
 SampID: 21081723-001CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.536	0.5000	0	107.1	75	125	09/10/2021
Arsenic		0.0010		0.575	0.5000	0	115.1	75	125	09/10/2021
Beryllium		0.0010		0.0555	0.0500	0	110.9	75	125	09/10/2021
Cadmium		0.0010		0.0536	0.0500	0	107.1	75	125	09/13/2021
Chromium		0.0015		0.214	0.2000	0.001054	106.6	75	125	09/10/2021
Cobalt		0.0010		0.529	0.5000	0.0003395	105.8	75	125	09/13/2021
Lead		0.0010		0.576	0.5000	0	115.2	75	125	09/10/2021
Lithium	*	0.0030		0.568	0.5000	0.01644	110.3	75	125	09/10/2021
Molybdenum		0.0015		0.552	0.5000	0.001359	110.2	75	125	09/10/2021
Selenium		0.0010		0.540	0.5000	0	108.0	75	125	09/10/2021
Thallium		0.0020		0.254	0.2500	0.005441	99.6	75	125	09/13/2021

Batch 181541 SampType: MSD Units mg/L
 SampID: 21081723-001CMSD

RPD Limit: 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		0.459	0.5000	0	91.8	0.5356	15.38	09/10/2021
Arsenic		0.0010		0.488	0.5000	0	97.5	0.5754	16.50	09/10/2021
Beryllium		0.0010		0.0464	0.0500	0	92.8	0.05546	17.84	09/10/2021
Cadmium		0.0010		0.0526	0.0500	0	105.2	0.05357	1.83	09/13/2021
Chromium		0.0015		0.182	0.2000	0.001054	90.5	0.2142	16.21	09/10/2021
Cobalt		0.0010		0.525	0.5000	0.0003395	105.0	0.5295	0.78	09/13/2021
Lead		0.0010		0.505	0.5000	0	101.1	0.5759	13.02	09/10/2021
Lithium	*	0.0030		0.484	0.5000	0.01644	93.6	0.5680	15.91	09/10/2021
Molybdenum		0.0015		0.465	0.5000	0.001359	92.7	0.5524	17.23	09/10/2021
Selenium		0.0010		0.462	0.5000	0	92.3	0.5401	15.66	09/10/2021
Thallium		0.0020		0.252	0.2500	0.005441	98.6	0.2545	1.00	09/13/2021

SW-846 7470A (TOTAL)

Batch 181545 SampType: MBLK Units mg/L
 SampID: MBLK-181545

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	09/08/2021



Quality Control Results

<http://www.teklabinc.com/>

Client: Southern Illinois Power Cooperation

Work Order: 21081723

Client Project: Groundwater Monitoring Q3 2021

Report Date: 01-Oct-21

SW-846 7470A (TOTAL)

Batch 181545		SampType: LCS		Units mg/L						
SampID: LCS-181545										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00471	0.0050	0	94.3	85	115	09/08/2021

Batch 181545		SampType: MS		Units mg/L						
SampID: 21090230-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00461	0.0050	0	92.1	75	125	09/08/2021

Batch 181545		SampType: MSD		Units mg/L							RPD Limit: 15
SampID: 21090230-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		0.00487	0.0050	0	97.4	0.004607	5.54	09/08/2021	



Receiving Check List

<http://www.teklabinc.com/>

Client: Southern Illinois Power Cooperation

Work Order: 21081723

Client Project: Groundwater Monitoring Q3 2021

Report Date: 01-Oct-21

Carrier: Joseph Riley

Received By: PRY

Completed by:

Reviewed by:

On:

On:

31-Aug-21

31-Aug-21

Ellie Hopkins

Elizabeth A. Hurley

Pages to follow: Chain of custody

Extra pages included

- | | | | | |
|---|---|---|--------------------------------------|----------------------------------|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | Temp °C 2.6 |
| Type of thermal preservation? | None <input type="checkbox"/> | Ice <input checked="" type="checkbox"/> | Blue Ice <input type="checkbox"/> | Dry Ice <input type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Reported field parameters measured: | Field <input checked="" type="checkbox"/> | Lab <input type="checkbox"/> | NA <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |

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 <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials <input checked="" type="checkbox"/> |
| Water - TOX containers have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No TOX containers <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/> |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

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

pH strip #77492 - PRY 8/31/21

Additional nitric acid (78199) was needed in EP-1 upon arrival at the laboratory. - PRY 8/31/21

CHAIN OF CUSTODY

pg. 1 of 1 Work order # 21081723
 TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client: Southern Illinois Power Cooperation
 Address: 11543 Lake of Egypt Road
 City / State / Zip: Marion, IL 62959
 Contact: Jason McLaurin (618) 964-1448
 E-Mail: jmlaurin@sipower.org

Samples on: ICE BLUE ICE NO ICE 216 °C LTG# 1
 Preserved in: LAB FIELD **FOR LAB USE ONLY**
 Lab Notes: PHU 77492, Address HUC03 78199
to sample EP-6, PAT 8/31/21

Client Comments

ICP: Ba B Ca
 ICP/MS: Sb As Be Cd Cr Co Pb Li Mo Se Tl
 CVAA: Hg

Project Name/Number	Sample Collector's Name	Billing Instructions		Date/Time Sampled	INDICATE ANALYSIS REQUESTED												
		Standard	# and Type of Containers		Chloride	Field pH	Field Turbidity	Fluoride	ICP Metals	ICP/MS Metals	Mercury	Ra226/228	Sulfate	TDS			
21081723	J. RILEY	<input checked="" type="checkbox"/> Standard	1 3	8/30/21 1312	X	X	X	X	X	X	X	X	X	X	X	X	X
-002		<input type="checkbox"/> Other	1 3	8/30/21 1241	X	X	X	X	X	X	X	X	X	X	X	X	X
-003			1 3	8/30/21 1212	X	X	X	X	X	X	X	X	X	X	X	X	X
-004			1 3	8/30/21 1159	X	X	X	X	X	X	X	X	X	X	X	X	X
-005			1 3	8/30/21 1135	X	X	X	X	X	X	X	X	X	X	X	X	X

Relinquished By: [Signature] Date/Time: 8/31/21 0755

Received By: [Signature] Date/Time: 8/31/21 0755

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.

Bottle Order: 67168 F-609281A 2928287AS CS
 DAA 8/21/21



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>

September 30, 2021

Elizabeth Hurley
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 21081723

Dear Elizabeth Hurley:

Order No.: 21090219

Summit Environmental Technologies, Inc. received 5 sample(s) on 9/2/2021 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



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#: 21090219
Date: 9/30/2021

CLIENT: TEKLAB Inc,
Project: 21081723

WorkOrder Narrative:

21090219: 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.

Original



Summit Environmental Technologies, Inc
 3310 Wins
 Cuyahoga Falls, Ohio 44221
 TEL: (330) 253-8211 FAX: (330) 253-446
 Website: <http://www.settek.co>

Qualifiers and Acronyms

WO#: 21090219
 Date: 9/30/2021

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.

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>

Workorder Sample Summary

WO#: 21090219
30-Sep-21

CLIENT: TEKLAB Inc,
Project: 21081723

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
21090219-001	21081723-001		8/30/2021 1:12:00 PM	9/2/2021 12:00:00 PM	Non-Potable Water
21090219-002	21081723-002		8/30/2021 12:41:00 PM	9/2/2021 12:00:00 PM	Non-Potable Water
21090219-003	21081723-003		8/30/2021 12:12:00 PM	9/2/2021 12:00:00 PM	Non-Potable Water
21090219-004	21081723-004		8/30/2021 11:59:00 AM	9/2/2021 12:00:00 PM	Non-Potable Water
21090219-005	21081723-005		8/30/2021 11:35:00 AM	9/2/2021 12:00:00 PM	Non-Potable Water



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Website: <http://www.settek.com>

DATES REPORT

WO#: 21090219
30-Sep-21

Client: TEKLAB Inc,
Project: 21081723

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
21090219-001A	21081723-001	8/30/2021 1:12:00 PM	Non-Potable Water	Radium-226 (903.0)	9/17/2021 1:10:00 PM	9/23/2021 8:39:00 AM	
				Radium-226/228 (903.0/904.0)		9/24/2021 1:25:09 PM	
21090219-002A	21081723-002	8/30/2021 12:41:00 PM		Radium-228 (904.0)	9/17/2021 1:10:00 PM	9/22/2021 1:15:00 PM	
				Radium-226 (903.0)	9/17/2021 1:10:00 PM	9/23/2021 8:39:00 AM	
				Radium-226/228 (903.0/904.0)		9/24/2021 1:25:09 PM	
21090219-003A	21081723-003	8/30/2021 12:12:00 PM		Radium-228 (904.0)	9/17/2021 1:10:00 PM	9/22/2021 1:15:00 PM	
				Radium-226 (903.0)	9/17/2021 1:10:00 PM	9/23/2021 9:22:00 AM	
				Radium-226/228 (903.0/904.0)		9/24/2021 1:25:09 PM	
21090219-004A	21081723-004	8/30/2021 11:59:00 AM		Radium-228 (904.0)	9/17/2021 1:10:00 PM	9/22/2021 1:53:00 PM	
				Radium-226 (903.0)	9/17/2021 1:10:00 PM	9/23/2021 9:22:00 AM	
				Radium-226/228 (903.0/904.0)		9/24/2021 1:25:09 PM	
21090219-005A	21081723-005	8/30/2021 11:35:00 AM		Radium-228 (904.0)	9/17/2021 1:10:00 PM	9/22/2021 1:53:00 PM	
				Radium-226 (903.0)	9/17/2021 1:10:00 PM	9/23/2021 9:23:00 AM	
				Radium-226/228 (903.0/904.0)		9/24/2021 1:25:09 PM	
				Radium-228 (904.0)	9/17/2021 1:10:00 PM	9/22/2021 1:53:00 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#: **21090219**
 Date Reported: **9/30/2021**

CLIENT: TEKLAB Inc, **Collection Date:** 8/30/2021 1:12:00 PM
Project: 21081723
Lab ID: 21090219-001 **Matrix:** NON-POTABLE WATER
Client Sample ID: 21081723-001

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 RADIUM-226/228 (903.0/904.0)				MBDRA226RA22		Analyst: SEE	
Radium-226/Radium-228 Combined	1.23	2.00	U	pCi/L	± 0.82	1	9/24/2021 1:25:09 PM
COMBINED RADIUM-226/228 RADIUM-226 (903.0)				E903.0		E903-904 Analyst: SEE	
Radium-226	0.21	1.00	U	pCi/L	± 0.1	1	9/23/2021 8:39:00 AM
Yield	1					1	9/23/2021 8:39:00 AM
COMBINED RADIUM-226/228 RADIUM-228 (904.0)				E904.0		E903-904 Analyst: SEE	
Radium-228	1.02	1.00		pCi/L	± 0.72	1	9/22/2021 1:15:00 PM
Yield	1					1	9/22/2021 1:15:00 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#: 21090219
Date Reported: 9/30/2021

CLIENT: TEKLAB Inc, Collection Date: 8/30/2021 12:41:00 PM
Project: 21081723
Lab ID: 21090219-002 Matrix: NON-POTABLE WATER
Client Sample ID: 21081723-002

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 RADIUM-226/228 (903.0/904.0)				MBDRA226RA22	Analyst: SEE		
Radium-226/Radium-228 Combined	1.82	2.00	U	pCi/L	± 0.93	1	9/24/2021 1:25:09 PM
COMBINED RADIUM-226/228 RADIUM-226 (903.0)				E903.0	E903-904	Analyst: SEE	
Radium-226	0.04	1.00	U	pCi/L	± 0.05	1	9/23/2021 8:39:00 AM
Yield	1					1	9/23/2021 8:39:00 AM
COMBINED RADIUM-226/228 RADIUM-228 (904.0)				E904.0	E903-904	Analyst: SEE	
Radium-228	1.78	1.00		pCi/L	± 0.88	1	9/22/2021 1:15:00 PM
Yield	1					1	9/22/2021 1:15:00 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 OGI
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#: 21090219

Date Reported: 9/30/2021

CLIENT: TEKLAB Inc,
 Project: 21081723
 Lab ID: 21090219-003
 Client Sample ID: 21081723-003

Collection Date: 8/30/2021 12:12:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 RADIUM-226/228 (903.0/904.0)				MBDRA226RA22		Analyst: SEE	
Radium-226/Radium-228 Combined	2.53	2.00		pCi/L	± 1.09	1	9/24/2021 1:25:09 PM
COMBINED RADIUM-226/228 RADIUM-226 (903.0)				E903.0		E903-904 Analyst: SEE	
Radium-226	0.02	1.00	U	pCi/L	± 0.06	1	9/23/2021 9:22:00 AM
Yield	1					1	9/23/2021 9:22:00 AM
COMBINED RADIUM-226/228 RADIUM-228 (904.0)				E904.0		E903-904 Analyst: SEE	
Radium-228	2.51	1.00		pCi/L	± 1.03	1	9/22/2021 1:53:00 PM
Yield	1					1	9/22/2021 1:53:00 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



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Analytical Report

(consolidated)
 WO#: 21090219
 Date Reported: 9/30/2021

CLIENT: TEKLAB Inc, Collection Date: 8/30/2021 11:59:00 AM
 Project: 21081723
 Lab ID: 21090219-004 Matrix: NON-POTABLE WATER
 Client Sample ID: 21081723-004

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 RADIUM-226/228 (903.0/904.0)				MBDRA226RA22		Analyst: SEE	
Radium-226/Radium-228 Combined	0.77	2.00	U	pCi/L	± 0.7	1	9/24/2021 1:25:09 PM
COMBINED RADIUM-226/228 RADIUM-226 (903.0)				E903.0		E903-904 Analyst: SEE	
Radium-226	0.27	1.00	U	pCi/L	± 0.11	1	9/23/2021 9:22:00 AM
Yield	1					1	9/23/2021 9:22:00 AM
COMBINED RADIUM-226/228 RADIUM-228 (904.0)				E904.0		E903-904 Analyst: SEE	
Radium-228	0.5	1.00	U	pCi/L	± 0.59	1	9/22/2021 1:53:00 PM
Yield	1					1	9/22/2021 1:53:00 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



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Analytical Report

(consolidated)

WO#: 21090219

Date Reported: 9/30/2021

CLIENT: TEKLAB Inc,
 Project: 21081723
 Lab ID: 21090219-005
 Client Sample ID: 21081723-005

Collection Date: 8/30/2021 11:35:00 AM

Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 RADIUM-226/228 (903.0/904.0)				MBDRA226RA22		Analyst: SEE	
Radium-226/Radium-228 Combined	0.25	2.00	U	pCi/L	± 0.63	1	9/24/2021 1:25:09 PM
COMBINED RADIUM-226/228 RADIUM-226 (903.0)				E903.0		E903-904 Analyst: SEE	
Radium-226	0.11	1.00	U	pCi/L	± 0.08	1	9/23/2021 9:23:00 AM
Yield	1					1	9/23/2021 9:23:00 AM
COMBINED RADIUM-226/228 RADIUM-228 (904.0)				E904.0		E903-904 Analyst: SEE	
Radium-228	0.14	1.00	U	pCi/L	± 0.55	1	9/22/2021 1:53:00 PM
Yield	1					1	9/22/2021 1:53:00 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



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QC SUMMARY REPORT

WO#: 21090219
 30-Sep-21

Client: TEKLAB Inc, **BatchID:** 52046
Project: 21081723

Sample ID: MB-R133848	SampType: MBLK	TestCode: Radium-228	Units: pCi/L	Prep Date:	RunNo: 133848						
Client ID: PBW	Batch ID: 52046	TestNo: E904.0	E903-904	Analysis Date: 9/22/2021	SeqNo: 3535572						
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-R133848	SampType: LCS	TestCode: Radium-228	Units: pCi/L	Prep Date:	RunNo: 133848						
Client ID: LCSW	Batch ID: 52046	TestNo: E904.0	E903-904	Analysis Date: 9/22/2021	SeqNo: 3535573						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.42	1.00	5.000		88.4	70	130				
Yield	1.00				0	0					

Sample ID: LCSD-R133848	SampType: LCSD	TestCode: Radium-228	Units: pCi/L	Prep Date:	RunNo: 133848						
Client ID: LCSS02	Batch ID: 52046	TestNo: E904.0	E903-904	Analysis Date: 9/22/2021	SeqNo: 3535574						
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		73.4	70	130	4.420	18.5	20	
Yield	1.00				0	0		1.000	0		

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



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QC SUMMARY REPORT

WO#: 21090219
 30-Sep-21

Client: TEKLAB Inc,
Project: 21081723

BatchID: 52046

Sample ID: RLC-R133848	SampType: RLC	TestCode: Radium-228_	Units: pCi/L	Prep Date:	RunNo: 133848						
Client ID: BatchQC	Batch ID: 52046	TestNo: E904.0	E903-904	Analysis Date: 9/22/2021	SeqNo: 3535576						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.34	1.00	1.000	0	134	50	150				
Yield	1.00			0	0						

Sample ID: RLCD-R133848	SampType: RLC	TestCode: Radium-228_	Units: pCi/L	Prep Date:	RunNo: 133848						
Client ID: BatchQC	Batch ID: 52046	TestNo: E904.0	E903-904	Analysis Date: 9/22/2021	SeqNo: 3535577						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.18	1.00	1.000	0	118	50	150				
Yield	1.00			0	0						

Sample ID: 21090180-001AMS	SampType: MS	TestCode: Radium-228_	Units: pCi/L	Prep Date:	RunNo: 133848						
Client ID: BatchQC	Batch ID: 52046	TestNo: E904.0	E903-904	Analysis Date: 9/22/2021	SeqNo: 3535578						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	6.06	1.00	5.000	0.6600	108	70	130				
Yield	1.00			1.000	0						

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



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QC SUMMARY REPORT

WO#: 21090219
 30-Sep-21

Client: TEKLAB Inc,
Project: 21081723

BatchID: 52046

Sample ID: 21090321-001ADUP	SampType: DUP	TestCode: Radium-228	Units: pCi/L	Prep Date: 9/17/2021	RunNo: 133848						
Client ID: BatchQC	Batch ID: 52046	TestNo: E904.0	E903-904	Analysis Date: 9/22/2021	SeqNo: 3535591						
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	0	0	0	20	U
Yield	1.00		0	0	0	1.000		1.000	0	0	

Sample ID: 21090710-001ADUP	SampType: DUP	TestCode: Radium-228	Units: pCi/L	Prep Date: 9/17/2021	RunNo: 133848						
Client ID: BatchQC	Batch ID: 52046	TestNo: E904.0	E903-904	Analysis Date: 9/22/2021	SeqNo: 3535595						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	0.920	1.00	0	0	0	0.9300		1.000	1.08	20	J
Yield	0.710		0	0	0	1.000		1.000	33.9		

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
	ND	Not Detected	OGI	R	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#: 21090219
 30-Sep-21

Client: TEKLAB Inc,
Project: 21081723

BatchID: 52046

Sample ID: MB-R133849	SampType: MBLK	TestCode: Radium-226	Units: pCi/L	Prep Date:	RunNo: 133849						
Client ID: PBW	Batch ID: 52046	TestNo: E903.0	E903-904	Analysis Date: 9/23/2021	SeqNo: 3535627						
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-R133849	SampType: LCS	TestCode: Radium-226	Units: pCi/L	Prep Date:	RunNo: 133849						
Client ID: LCSW	Batch ID: 52046	TestNo: E903.0	E903-904	Analysis Date: 9/23/2021	SeqNo: 3535628						
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: LCSD-R133849	SampType: LCSD	TestCode: Radium-226	Units: pCi/L	Prep Date:	RunNo: 133849						
Client ID: LCSS02	Batch ID: 52046	TestNo: E903.0	E903-904	Analysis Date: 9/23/2021	SeqNo: 3535629						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.49	1.00	5.000	0	110	70	130	4.950	10.3	20	

Sample ID: RLC-R133849	SampType: RLC	TestCode: Radium-226	Units: pCi/L	Prep Date:	RunNo: 133849						
Client ID: BatchQC	Batch ID: 52046	TestNo: E903.0	E903-904	Analysis Date: 9/23/2021	SeqNo: 3535631						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.49	1.00	5.000	0	110	70	130	4.950	10.3	20	

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



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QC SUMMARY REPORT

WO#: 21090219
 30-Sep-21

Client: TEKLAB Inc,
Project: 21081723

BatchID: 52046

Sample ID:	RLC-R133849	SampType:	RLC	TestCode:	Radium-226	Units:	pCi/L	Prep Date:	RunNo:	133849	
Client ID:	BatchQC	Batch ID:	52046	TestNo:	E903.0	E903-904	E903-904	Analysis Date:	SeqNo:	3535631	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	0.800	1.00	1.000	0	80.0	50	150				J

Sample ID:	RLCD-R133849	SampType:	RLC	TestCode:	Radium-226	Units:	pCi/L	Prep Date:	RunNo:	133849	
Client ID:	BatchQC	Batch ID:	52046	TestNo:	E903.0	E903-904	E903-904	Analysis Date:	SeqNo:	3535632	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	0.770	1.00	1.000	0	77.0	50	150				J

Sample ID:	21090180-001AMS	SampType:	MS	TestCode:	Radium-226	Units:	pCi/L	Prep Date:	RunNo:	133849	
Client ID:	BatchQC	Batch ID:	52046	TestNo:	E903.0	E903-904	E903-904	Analysis Date:	SeqNo:	3535633	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.62	1.00	5.000	0	112	70	130				

Sample ID:	21090321-001ADUP	SampType:	DUP	TestCode:	Radium-226	Units:	pCi/L	Prep Date:	RunNo:	133849	
Client ID:	BatchQC	Batch ID:	52046	TestNo:	E903.0	E903-904	E903-904	Analysis Date:	SeqNo:	3535643	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									U

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



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QC SUMMARY REPORT

WO#: 21090219
 30-Sep-21

Client: TEKLAB Inc,
Project: 21081723

BatchID: 52046

Sample ID: 21090321-001ADUP	SampType: DUP	TestCode: Radium-226	Units: pCi/L	Prep Date: 9/17/2021	RunNo: 133849					
Client ID: BatchQC	Batch ID: 52046	TestNo: E903.0	E903-904	Analysis Date: 9/23/2021	SeqNo: 3535643					
Analyte	Result	PQL	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Yield	1.00						1.000	0	0	0

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or anal
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
	ND	Not Detected	OGI		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 Lab

Project# 21081723
Cooler Temp. _____
Sampler J. Riley / P. Riley
QC Level: 2
21090219

Comments: Please issue reports and invoices via email only
Please analyze for Radium 226/228 per methods EPA 903.D904.0

IL site _____
Batch QC is required for all analyses requested.

Any changes to analysis/methods must be approved by Teklab, Inc.
Phone: (618) 344-1004 ext 33

Contact: Elizabeth Hurley
Email: ehurley@teklabinc.com
Billing/PO: 31747

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	Matrix	Analysis	QC	Method	Result	Units	Notes
	21081723-001	8/30/21 1312	Groundwater	HM03	<input checked="" type="checkbox"/>				
	21081723-002	8/30/21 1241	Groundwater	HM03	<input checked="" type="checkbox"/>				
	21081723-003	8/30/21 1212	Groundwater	HM03	<input checked="" type="checkbox"/>				
	21081723-004	8/30/21 1159	Groundwater	HM03	<input checked="" type="checkbox"/>				
	21081723-005	8/30/21 1135	Groundwater	HM03	<input checked="" type="checkbox"/>				
			Groundwater	HM03	<input type="checkbox"/>				
			Groundwater	HM03	<input type="checkbox"/>				
			Groundwater	HM03	<input type="checkbox"/>				
			Groundwater	HM03	<input type="checkbox"/>				
			Groundwater	HM03	<input type="checkbox"/>				
			Groundwater	HM03	<input type="checkbox"/>				
			Groundwater	HM03	<input type="checkbox"/>				
			Groundwater	HM03	<input type="checkbox"/>				

Requisitioned By	Date/Time	Received By	Date/Time
CAVIN HERRIN	8/31/21 1600	Elizabeth Hurley	9/2/21 1200

TEKLAB, INC. maintains a strict policy of client confidentiality and as such does not provide client/sample 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 VI MR Section 4.1.5 c)

14.d-05 of
35/09/14
9/2/21 1200

See CodeRevA 3/22/16



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Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **21090219** RcptNo: **1**

Logged by:	Jacqueline Rasile	9/2/2021 12:00:00 PM	<i>Jacqueline Rasile</i>
Completed By:	Jacqueline Rasile	9/3/2021 11:07:23 AM	<i>Jacqueline Rasile</i>
Reviewed By:	Jennifer Woolf	9/3/2021 1:22:57 PM	<i>Jennifer Woolf</i>

Chain of Custody

- Were seals intact? Yes No Not Present
- Is Chain of Custody complete? Yes No Not Present
- How was the sample delivered? FedEx

Log In

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

Special Handling (if applicable)

- Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

- Additional remarks:
 yes
 combined needed?EDD, negative values

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
box	13.5	Good	Not Present			