



## Southern Illinois Power Cooperative

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

October 8, 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 required by 35 Illinois Administrative Code Part 845.610(b)(3)(D), please find enclosed the groundwater monitoring data collected in May 2021. This is the first round of data collected since the closure by removal of the former Emery Pond. 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](mailto:wwatson@sipower.com).

Sincerely,

Wendell Watson  
Southern Illinois Power Cooperative

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



*SIPC is an equal opportunity provider and employer.*

July 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

**WorkOrder:** 21060006

Dear Jason McLaurin:

TEKLAB, INC received 6 samples on 6/1/2021 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,



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



## Report Contents

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

**Client:** Southern Illinois Power Cooperation

**Work Order:** 21060006

**Client Project:** Groundwater Monitoring

**Report Date:** 01-Jul-21

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## Definitions

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

Client: Southern Illinois Power Cooperation

Work Order: 21060006

Client Project: Groundwater Monitoring

Report Date: 01-Jul-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.
- LCS D 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:** 21060006

**Client Project:** Groundwater Monitoring

**Report Date:** 01-Jul-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:** 21060006

**Client Project:** Groundwater Monitoring

**Report Date:** 01-Jul-21

**Cooler Receipt Temp:** 0.6 °C

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

This report was revised on July 1, 2021 per Danielle Sylvia (Golder Associates Inc.)'s request and Jason McLaurin's consent. The reason for the revision is to include LVL2 QC and MDLs. Please replace report dated June 30, 2021 with this report. EAH 7/1/21

### 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: 21060006

Client Project: Groundwater Monitoring

Report Date: 01-Jul-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	8/31/2021	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: 21060006

Client Project: Groundwater Monitoring

Report Date: 01-Jul-21

Lab ID: 21060006-001

Client Sample ID: EBG

Matrix: GROUNDWATER

Collection Date: 05/31/2021 13:44

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		10	NTU	1	05/31/2021 13:44	R293760
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		6.61		1	05/31/2021 13:44	R293760
<i>Field pH QC was completed but not recorded.</i>									
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	16	20		344	mg/L	1	06/03/2021 16:07	R291832
<b>STANDARD METHODS 4500-CL E (TOTAL) 1997, 2011</b>									
Chloride	NELAP	1	1		22	mg/L	1	06/09/2021 19:20	R293039
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	12	20		85	mg/L	2	06/10/2021 2:02	R293024
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.60	mg/L	1	06/01/2021 20:33	R291748
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Barium	NELAP	0.0007	0.0025		0.0505	mg/L	1	06/02/2021 20:42	177496
Boron	NELAP	0.0090	0.0200		< 0.0200	mg/L	1	06/02/2021 20:42	177496
Calcium	NELAP	0.0350	0.100		13.3	mg/L	1	06/02/2021 20:42	177496
<b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b>									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/08/2021 16:31	177497
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/08/2021 16:31	177497
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/22/2021 0:16	177497
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/08/2021 16:31	177497
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	06/08/2021 16:31	177497
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	06/08/2021 16:31	177497
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/08/2021 16:31	177497
Lithium	*	0.0015	0.0030		0.0207	mg/L	5	06/23/2021 19:10	177497
Molybdenum	NELAP	0.0006	0.0015		0.0145	mg/L	5	06/08/2021 16:31	177497
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/08/2021 16:31	177497
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	06/08/2021 16:31	177497
<b>SW-846 7470A (TOTAL)</b>									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	06/03/2021 11:36	177506





## Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 21060006

Client Project: Groundwater Monitoring

Report Date: 01-Jul-21

Lab ID: 21060006-002

Client Sample ID: EP-1

Matrix: GROUNDWATER

Collection Date: 05/31/2021 12:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		50	NTU	1	05/31/2021 12:20	R293760
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		6.18		1	05/31/2021 12:20	R293760
<i>Field pH QC was completed but not recorded.</i>									
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	16	20		2500	mg/L	1	06/03/2021 16:08	R291832
<b>STANDARD METHODS 4500-CL E (TOTAL) 1997, 2011</b>									
Chloride	NELAP	1	1		44	mg/L	1	06/09/2021 19:28	R293039
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	307	500		1450	mg/L	50	06/10/2021 2:05	R293024
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.22	mg/L	1	06/01/2021 20:38	R291748
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Barium	NELAP	0.0007	0.0025		0.0216	mg/L	1	06/02/2021 20:47	177496
Boron	NELAP	0.0090	0.0200		0.816	mg/L	1	06/02/2021 20:47	177496
Calcium	NELAP	0.0350	0.100		478	mg/L	1	06/02/2021 20:47	177496
<b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b>									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/08/2021 16:54	177497
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/08/2021 16:54	177497
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/22/2021 0:39	177497
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/08/2021 16:54	177497
Chromium	NELAP	0.0007	0.0020		< 0.0020	mg/L	5	06/22/2021 0:39	177497
Cobalt	NELAP	0.0001	0.0010		0.0012	mg/L	5	06/08/2021 16:54	177497
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/08/2021 16:54	177497
Lithium	*	0.0015	0.0030		0.0141	mg/L	5	06/23/2021 19:21	177497
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	06/08/2021 16:54	177497
Selenium	NELAP	0.0006	0.0010		0.0015	mg/L	5	06/08/2021 16:54	177497
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	06/08/2021 16:54	177497
<b>SW-846 7470A (TOTAL)</b>									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	06/03/2021 11:43	177506



## Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 21060006

Client Project: Groundwater Monitoring

Report Date: 01-Jul-21

Lab ID: 21060006-003

Client Sample ID: EP-2

Matrix: GROUNDWATER

Collection Date: 05/31/2021 11:44

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		7.3	NTU	1	05/31/2021 11:44	R293760
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		5.74		1	05/31/2021 11:44	R293760
<i>Field pH QC was completed but not recorded.</i>									
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	16	20		2120	mg/L	1	06/03/2021 16:08	R291832
<b>STANDARD METHODS 4500-CL E (TOTAL) 1997, 2011</b>									
Chloride	NELAP	1	1		29	mg/L	1	06/09/2021 19:52	R293039
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	307	500		1370	mg/L	50	06/10/2021 2:10	R293024
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.62	mg/L	1	06/01/2021 20:40	R291748
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Barium	NELAP	0.0007	0.0025		0.0146	mg/L	1	06/03/2021 18:53	177502
Boron	NELAP	0.0090	0.0200		0.544	mg/L	1	06/03/2021 18:53	177502
Calcium	NELAP	0.0350	0.100		372	mg/L	1	06/03/2021 18:53	177502
<b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b>									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/08/2021 4:11	177503
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/08/2021 4:11	177503
Beryllium	NELAP	0.0002	0.0010		0.0011	mg/L	5	06/08/2021 4:11	177503
Cadmium	NELAP	0.0002	0.0010		0.0015	mg/L	5	06/08/2021 4:11	177503
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	06/08/2021 4:11	177503
Cobalt	NELAP	0.0001	0.0010		0.0017	mg/L	5	06/08/2021 4:11	177503
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/08/2021 4:11	177503
Lithium	*	0.0015	0.0030		0.0206	mg/L	5	06/08/2021 4:11	177503
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	06/08/2021 4:11	177503
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/08/2021 4:11	177503
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	06/08/2021 4:11	177503
<i>Sample result(s) for Lithium exceed 10 times the instrument blank contamination. Data is reportable per the TNI Standard.</i>									
<b>SW-846 7470A (TOTAL)</b>									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	06/03/2021 11:45	177506



## Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 21060006

Client Project: Groundwater Monitoring

Report Date: 01-Jul-21

Lab ID: 21060006-004

Client Sample ID: EP-3

Matrix: GROUNDWATER

Collection Date: 05/31/2021 11:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		10	NTU	1	05/31/2021 11:10	R293760
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		6.13		1	05/31/2021 11:10	R293760
<i>Field pH QC was completed but not recorded.</i>									
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	16	20		692	mg/L	1	06/03/2021 16:08	R291832
<b>STANDARD METHODS 4500-CL E (TOTAL) 1997, 2011</b>									
Chloride	NELAP	5	10		127	mg/L	10	06/09/2021 20:13	R293039
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	61	100		148	mg/L	10	06/09/2021 20:13	R293024
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.22	mg/L	1	06/01/2021 20:42	R291748
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Barium	NELAP	0.0007	0.0025		0.0819	mg/L	1	06/03/2021 18:55	177502
Boron	NELAP	0.0090	0.0200		0.0556	mg/L	1	06/03/2021 18:55	177502
Calcium	NELAP	0.0350	0.100		40.6	mg/L	1	06/03/2021 18:55	177502
<b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b>									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/08/2021 4:34	177503
Arsenic	NELAP	0.0004	0.0010		0.0075	mg/L	5	06/08/2021 4:34	177503
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/08/2021 4:34	177503
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/08/2021 4:34	177503
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	06/08/2021 4:34	177503
Cobalt	NELAP	0.0001	0.0010		0.0912	mg/L	5	06/08/2021 4:34	177503
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/08/2021 4:34	177503
Lithium	*	0.0015	0.0030		0.0314	mg/L	5	06/08/2021 4:34	177503
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	06/08/2021 4:34	177503
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/08/2021 4:34	177503
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	06/08/2021 4:34	177503
<i>Sample result(s) for Lithium exceed 10 times the instrument blank contamination. Data is reportable per the TNI Standard.</i>									
<b>SW-846 7470A (TOTAL)</b>									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	06/03/2021 11:48	177506



## Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 21060006

Client Project: Groundwater Monitoring

Report Date: 01-Jul-21

Lab ID: 21060006-005

Client Sample ID: EP-4

Matrix: GROUNDWATER

Collection Date: 05/31/2021 10:12

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>STANDARD METHODS 2130 B FIELD</b>									
Turbidity	*	1.0	1.0		19	NTU	1	05/31/2021 10:12	R293760
<b>SW-846 9040B FIELD</b>									
pH	*	0	1.00		5.79		1	05/31/2021 10:12	R293760
<i>Field pH QC was completed but not recorded.</i>									
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	16	20	R	1860	mg/L	1	06/03/2021 16:09	R291832
<i>RPD for DUP was outside control limits due to sample composition.</i>									
<b>STANDARD METHODS 4500-CL E (TOTAL) 1997, 2011</b>									
Chloride	NELAP	5	10		484	mg/L	10	06/09/2021 20:29	R293039
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	123	200		670	mg/L	20	06/10/2021 2:23	R293024
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		0.10	mg/L	1	06/01/2021 20:50	R291748
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Barium	NELAP	0.0007	0.0025		0.0248	mg/L	1	06/03/2021 19:05	177502
Boron	NELAP	0.0090	0.0200		11.9	mg/L	1	06/03/2021 19:05	177502
Calcium	NELAP	0.0350	0.100		179	mg/L	1	06/03/2021 19:05	177502
<b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b>									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/08/2021 4:41	177503
Arsenic	NELAP	0.0004	0.0010		0.0075	mg/L	5	06/08/2021 4:41	177503
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/08/2021 4:41	177503
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/08/2021 4:41	177503
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	06/08/2021 4:41	177503
Cobalt	NELAP	0.0001	0.0010		0.287	mg/L	5	06/08/2021 4:41	177503
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/08/2021 4:41	177503
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	06/08/2021 4:41	177503
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	06/08/2021 4:41	177503
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/08/2021 4:41	177503
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	06/08/2021 4:41	177503
<i>Contamination present in the CCB for Lithium. Sample results below the reporting limit are reportable per the TNI Standard.</i>									
<b>SW-846 7470A (TOTAL)</b>									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	06/03/2021 12:06	177512



## Laboratory Results

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

Client: Southern Illinois Power Cooperation

Work Order: 21060006

Client Project: Groundwater Monitoring

Report Date: 01-Jul-21

Lab ID: 21060006-006

Client Sample ID: Equipment Blank

Matrix: AQUEOUS

Collection Date: 05/31/2021 0:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>									
Total Dissolved Solids	NELAP	16	20		< 20	mg/L	1	06/03/2021 16:10	R291832
<b>STANDARD METHODS 4500-CL E (TOTAL) 1997, 2011</b>									
Chloride	NELAP	1	1		< 1	mg/L	1	06/09/2021 20:48	R293039
<b>SW-846 9036 (TOTAL)</b>									
Sulfate	NELAP	6	10		< 10	mg/L	1	06/09/2021 20:48	R293024
<b>SW-846 9214 (TOTAL)</b>									
Fluoride	NELAP	0.04	0.10		< 0.10	mg/L	1	06/01/2021 20:52	R291748
<b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>									
Barium	NELAP	0.0007	0.0025		< 0.0025	mg/L	1	06/03/2021 19:06	177502
Boron	NELAP	0.0090	0.0200		< 0.0200	mg/L	1	06/03/2021 19:06	177502
Calcium	NELAP	0.0350	0.100		< 0.100	mg/L	1	06/03/2021 19:06	177502
<b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b>									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/08/2021 4:49	177503
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	06/08/2021 4:49	177503
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/08/2021 4:49	177503
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	06/08/2021 4:49	177503
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	06/08/2021 4:49	177503
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	06/08/2021 4:49	177503
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/08/2021 4:49	177503
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	06/08/2021 4:49	177503
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	06/08/2021 4:49	177503
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	06/08/2021 4:49	177503
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	06/08/2021 4:49	177503
<i>Contamination present in the CCB for Lithium. Sample results below the reporting limit are reportable per the TNI Standard.</i>									
<b>SW-846 7470A (TOTAL)</b>									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	06/03/2021 12:13	177512



## Quality Control Results

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

**Client:** Southern Illinois Power Cooperation  
**Client Project:** Groundwater Monitoring

**Work Order:** 21060006  
**Report Date:** 01-Jul-21

### STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R291832		SampType: MBLK		Units mg/L						
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	06/03/2021
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	06/03/2021
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	06/03/2021
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	06/03/2021

Batch R291832		SampType: LCS		Units mg/L						
SampID: LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		956	1000	0	95.6	90	110	06/03/2021
Total Dissolved Solids		20		942	1000	0	94.2	90	110	06/03/2021
Total Dissolved Solids		20		968	1000	0	96.8	90	110	06/03/2021
Total Dissolved Solids		20		972	1000	0	97.2	90	110	06/03/2021

Batch R291832		SampType: DUP		Units mg/L							RPD Limit 5	
SampID: 21060006-001ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		332				344.0	3.55	06/03/2021		

Batch R291832		SampType: DUP		Units mg/L							RPD Limit 5	
SampID: 21060006-005ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20	R	2000				1858	7.56	06/03/2021		

Batch R291832		SampType: DUP		Units mg/L							RPD Limit 5	
SampID: 21041540-006BDUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		860				838.0	2.59	06/03/2021		

Batch R291832		SampType: DUP		Units mg/L							RPD Limit 5	
SampID: 21050931-006BDUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		1430				1406	1.69	06/03/2021		



## Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 21060006

Client Project: Groundwater Monitoring

Report Date: 01-Jul-21

### STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R291832		SampType: DUP		Units mg/L				RPD Limit 5			
SampID: 21051587-001ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		20	RH	380				414.0	8.56	06/03/2021	

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

Batch R293039		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	06/09/2021	

Batch R293039		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		20	20.00	0	101.7	90	110	06/09/2021	

Batch R293039		SampType: MS		Units mg/L							
SampID: 21041540-003BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		2		78	40.00	41.77	89.9	85	115	06/09/2021	

Batch R293039		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 21041540-003BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		2		77	40.00	41.77	88.6	77.73	0.66	06/09/2021	

Batch R293039		SampType: MS		Units mg/L							
SampID: 21051708-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		1		33	20.00	13.90	94.2	85	115	06/09/2021	

Batch R293039		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 21051708-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		1		33	20.00	13.90	93.4	32.74	0.46	06/09/2021	



## Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 21060006

Client Project: Groundwater Monitoring

Report Date: 01-Jul-21

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

Batch R293039		SampType: MS		Units mg/L							Date Analyzed
SampID: 21060006-004AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		10		309	200.0	127.1	91.1	85	115	06/09/2021	

Batch R293039		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 21060006-004AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		10		312	200.0	127.1	92.6	309.4	0.98	06/09/2021		

Batch R293039		SampType: MS		Units mg/L							Date Analyzed
SampID: 21060082-006AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		1		41	20.00	21.74	96.8	85	115	06/10/2021	

Batch R293039		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 21060082-006AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		1		42	20.00	21.74	99.0	41.10	1.04	06/10/2021		

Batch R293039		SampType: MS		Units mg/L							Date Analyzed
SampID: 21060206-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		10		370	200.0	181.2	94.3	85	115	06/09/2021	

Batch R293039		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 21060206-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		10		370	200.0	181.2	94.4	369.8	0.04	06/09/2021		

Batch R293039		SampType: MS		Units mg/L							Date Analyzed
SampID: 21060297-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		100		2400	2000	431.5	98.5	85	115	06/09/2021	

Batch R293039		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 21060297-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		100		2430	2000	431.5	100.0	2401	1.21	06/09/2021		





## Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 21060006

Client Project: Groundwater Monitoring

Report Date: 01-Jul-21

**SW-846 9036 (TOTAL)**

Batch R293024		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	06/09/2021	

Batch R293024		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		19	20.00	0	93.5	90	110	06/09/2021	

Batch R293024		SampType: MS		Units mg/L							Date Analyzed
SampID: 21041540-003BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		33	20.00	14.77	90.6	85	115	06/09/2021	

Batch R293024		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 21041540-003BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		10		33	20.00	14.77	91.4	32.89	0.52	06/09/2021		

Batch R293024		SampType: MS		Units mg/L							Date Analyzed
SampID: 21060006-004AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		321	200.0	147.6	86.9	85	115	06/09/2021	

Batch R293024		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 21060006-004AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		100		328	200.0	147.6	90.2	321.4	2.00	06/09/2021		

Batch R293024		SampType: MS		Units mg/L							Date Analyzed
SampID: 21060082-006AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		449	200.0	257.3	95.8	85	115	06/10/2021	

Batch R293024		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 21060082-006AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		100		455	200.0	257.3	98.7	448.8	1.29	06/10/2021		



## Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 21060006

Client Project: Groundwater Monitoring

Report Date: 01-Jul-21

### SW-846 9036 (TOTAL)

Batch R293024		SampType: MS		Units mg/L							Date Analyzed
SampID: 21060332-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		500	E	3020	1000	2062	95.9	90	110	06/09/2021	

Batch R293024		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 21060332-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		500	E	3020	1000	2062	96.2	3021	0.09	06/09/2021		

Batch R293024		SampType: MS		Units mg/L							Date Analyzed
SampID: 21060392-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20		78	40.00	37.71	100.9	85	115	06/09/2021	

Batch R293024		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 21060392-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		20		80	40.00	37.71	104.5	78.07	1.82	06/09/2021		

### SW-846 9214 (TOTAL)

Batch R291748		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	
Fluoride		0.10		< 0.10	0.0070	0	0	-100	100	06/01/2021	

Batch R291748		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	
Fluoride		0.10		1.06	1.000	0	106.3	90	110	06/01/2021	

Batch R291748		SampType: MS		Units mg/L							Date Analyzed
SampID: 21041540-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.27	2.000	0.3480	96.1	75	125	06/01/2021	



## Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 21060006

Client Project: Groundwater Monitoring

Report Date: 01-Jul-21

**SW-846 9214 (TOTAL)**

Batch R291748		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 21041540-002BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		2.40	2.000	0.3480	102.4	2.270	5.40	06/01/2021

Batch R291748		SampType: MS		Units mg/L						
SampID: 21050931-003AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		2.22	2.000	0.1580	103.0	75	125	06/01/2021

Batch R291748		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 21050931-003AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		2.16	2.000	0.1580	100.1	2.217	2.60	06/01/2021

Batch R291748		SampType: MS		Units mg/L						
SampID: 21060006-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		2.62	2.000	0.5960	101.1	75	125	06/01/2021

Batch R291748		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 21060006-001AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		2.62	2.000	0.5960	101.3	2.618	0.15	06/01/2021

Batch R291748		SampType: MS		Units mg/L						
SampID: 21060010-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		2.69	2.000	0.6940	99.7	75	125	06/01/2021

Batch R291748		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 21060010-001AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		2.68	2.000	0.6940	99.2	2.687	0.34	06/01/2021

Batch R291748		SampType: MS		Units mg/L						
SampID: 21060082-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		2.22	2.000	0.2280	99.4	75	125	06/02/2021



## Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 21060006

Client Project: Groundwater Monitoring

Report Date: 01-Jul-21

### SW-846 9214 (TOTAL)

Batch R291748		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 21060082-001AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		2.29	2.000	0.2280	103.2	2.216	3.33	06/02/2021

Batch R291748		SampType: MS		Units mg/L						
SampID: 21060082-006AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		2.47	2.000	0.4300	102.0	75	125	06/02/2021

Batch R291748		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 21060082-006AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		2.49	2.000	0.4300	103.0	2.471	0.77	06/02/2021

Batch R291748		SampType: MS		Units mg/L						
SampID: 21060153-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		2.79	2.000	0.7620	101.5	75	125	06/02/2021

Batch R291748		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 21060153-001AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		2.80	2.000	0.7620	102.0	2.792	0.36	06/02/2021

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

Batch 177496		SampType: MBLK		Units mg/L						
SampID: MBLK-177496										
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	06/02/2021
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	06/02/2021
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	06/02/2021

Batch 177496		SampType: LCS		Units mg/L						
SampID: LCS-177496										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		2.10	2.000	0	105.0	85	115	06/02/2021
Boron		0.0200		0.512	0.5000	0	102.3	85	115	06/02/2021
Calcium		0.100		2.62	2.500	0	104.9	85	115	06/02/2021



## Quality Control Results

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

**Client:** Southern Illinois Power Cooperation

**Work Order:** 21060006

**Client Project:** Groundwater Monitoring

**Report Date:** 01-Jul-21

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

**Batch 177496**      **SampType: MS**      Units mg/L  
 SampID: 21041540-001CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	111	2.500	109.7	67.2	75	125	06/02/2021

**Batch 177496**      **SampType: MSD**      Units mg/L      RPD Limit 20  
 SampID: 21041540-001CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	114	2.500	109.7	166.0	111.4	2.19	06/02/2021

**Batch 177496**      **SampType: MS**      Units mg/L  
 SampID: 21060006-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		2.15	2.000	0.05050	105.0	75	125	06/02/2021
Boron		0.0200		0.527	0.5000	0.01580	102.2	75	125	06/02/2021
Calcium		0.100		16.0	2.500	13.27	111.2	75	125	06/02/2021

**Batch 177496**      **SampType: MSD**      Units mg/L      RPD Limit 20  
 SampID: 21060006-001BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		0.0025		2.12	2.000	0.05050	103.5	2.150	1.41	06/02/2021
Boron		0.0200		0.521	0.5000	0.01580	101.0	0.5266	1.09	06/02/2021
Calcium		0.100		15.8	2.500	13.27	101.6	16.05	1.51	06/02/2021

**Batch 177502**      **SampType: MBLK**      Units mg/L  
 SampID: MBLK-177502

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	06/03/2021
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	06/03/2021
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	06/03/2021

**Batch 177502**      **SampType: LCS**      Units mg/L  
 SampID: LCS-177502

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		2.08	2.000	0	104.0	85	115	06/03/2021
Boron		0.0200		0.509	0.5000	0	101.8	85	115	06/03/2021
Calcium		0.100		2.59	2.500	0	103.6	85	115	06/03/2021



## Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 21060006

Client Project: Groundwater Monitoring

Report Date: 01-Jul-21

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

Batch 177497 SampType: MBLK Units mg/L  
 SampID: MBLK-177497

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	06/08/2021
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	06/08/2021
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	06/11/2021
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	06/08/2021
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	06/08/2021
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	06/08/2021
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	06/08/2021
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	06/11/2021
Molybdenum		0.0015		< 0.0015	0.0006	0	0	-100	100	06/08/2021
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	06/08/2021
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	06/08/2021

Batch 177497 SampType: LCS Units mg/L  
 SampID: LCS-177497

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.559	0.5000	0	111.7	85	115	06/08/2021
Arsenic		0.0010		0.562	0.5000	0	112.4	85	115	06/08/2021
Beryllium		0.0010		0.0495	0.0500	0	98.9	85	115	06/11/2021
Cadmium		0.0010		0.0511	0.0500	0	102.2	85	115	06/08/2021
Chromium		0.0015		0.201	0.2000	0	100.7	85	115	06/08/2021
Cobalt		0.0010		0.507	0.5000	0	101.5	85	115	06/08/2021
Lead		0.0010		0.528	0.5000	0	105.6	85	115	06/08/2021
Lithium	*	0.0030		0.519	0.5000	0	103.8	85	115	06/11/2021
Molybdenum		0.0015		0.522	0.5000	0	104.5	85	115	06/08/2021
Selenium		0.0010		0.554	0.5000	0	110.8	85	115	06/08/2021
Thallium		0.0020		0.257	0.2500	0	102.7	85	115	06/08/2021



## Quality Control Results

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

**Client:** Southern Illinois Power Cooperation

**Work Order:** 21060006

**Client Project:** Groundwater Monitoring

**Report Date:** 01-Jul-21

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

**Batch** 177497      **SampType:** MS      **Units** mg/L  
**SampID:** 21060006-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		<b>0.554</b>	0.5000	0	110.8	75	125	06/08/2021
Arsenic		0.0010		<b>0.552</b>	0.5000	0	110.4	75	125	06/08/2021
Beryllium		0.0010		<b>0.0527</b>	0.0500	0	105.4	75	125	06/22/2021
Cadmium		0.0010		<b>0.0512</b>	0.0500	0	102.3	75	125	06/08/2021
Chromium		0.0015		<b>0.198</b>	0.2000	0	98.8	75	125	06/08/2021
Cobalt		0.0010		<b>0.506</b>	0.5000	0.0002296	101.1	75	125	06/08/2021
Lead		0.0010		<b>0.552</b>	0.5000	0	110.4	75	125	06/08/2021
Lithium	*	0.0030		<b>0.578</b>	0.5000	0.02074	111.4	75	125	06/23/2021
Molybdenum		0.0015		<b>0.533</b>	0.5000	0.01447	103.8	75	125	06/08/2021
Selenium		0.0010		<b>0.539</b>	0.5000	0	107.8	75	125	06/08/2021
Thallium		0.0020		<b>0.263</b>	0.2500	0	105.1	75	125	06/08/2021

**Batch** 177497      **SampType:** MSD      **Units** mg/L  
**SampID:** 21060006-001BMSD

**RPD Limit 20**

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		<b>0.548</b>	0.5000	0	109.6	0.5542	1.16	06/08/2021
Arsenic		0.0010		<b>0.547</b>	0.5000	0	109.5	0.5520	0.85	06/08/2021
Beryllium		0.0010		<b>0.0521</b>	0.0500	0	104.2	0.05272	1.13	06/22/2021
Cadmium		0.0010		<b>0.0504</b>	0.0500	0	100.7	0.05115	1.55	06/08/2021
Chromium		0.0015		<b>0.197</b>	0.2000	0	98.7	0.1976	0.09	06/08/2021
Cobalt		0.0010		<b>0.504</b>	0.5000	0.0002296	100.8	0.5058	0.35	06/08/2021
Lead		0.0010		<b>0.540</b>	0.5000	0	107.9	0.5520	2.26	06/08/2021
Lithium	*	0.0030		<b>0.589</b>	0.5000	0.02074	113.6	0.5776	1.88	06/23/2021
Molybdenum		0.0015		<b>0.530</b>	0.5000	0.01447	103.0	0.5333	0.70	06/08/2021
Selenium		0.0010		<b>0.531</b>	0.5000	0	106.1	0.5390	1.55	06/08/2021
Thallium		0.0020		<b>0.259</b>	0.2500	0	103.7	0.2628	1.35	06/08/2021



## Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 21060006

Client Project: Groundwater Monitoring

Report Date: 01-Jul-21

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

Batch 177503 SampType: MBLK Units mg/L  
 SampID: MBLK-177503

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	06/08/2021
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	06/08/2021
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	06/08/2021
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	06/08/2021
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	06/08/2021
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	06/08/2021
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	06/08/2021
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	06/08/2021
Molybdenum		0.0015		< 0.0015	0.0006	0	0	-100	100	06/08/2021
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	06/08/2021
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	06/08/2021

Batch 177503 SampType: LCS Units mg/L  
 SampID: LCS-177503

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.537	0.5000	0	107.5	80	120	06/08/2021
Arsenic		0.0010		0.538	0.5000	0	107.5	80	120	06/08/2021
Beryllium		0.0010		0.0463	0.0500	0	92.6	80	120	06/08/2021
Cadmium		0.0010		0.0495	0.0500	0	99.0	80	120	06/08/2021
Chromium		0.0015		0.196	0.2000	0	97.9	80	120	06/08/2021
Cobalt		0.0010		0.490	0.5000	0	98.0	80	120	06/08/2021
Lead		0.0010		0.513	0.5000	0	102.5	80	120	06/08/2021
Lithium	*	0.0030		0.468	0.5000	0	93.6	80	120	06/08/2021
Molybdenum		0.0015		0.505	0.5000	0	101.1	80	120	06/08/2021
Selenium		0.0010		0.518	0.5000	0	103.6	80	120	06/08/2021
Thallium		0.0020		0.248	0.2500	0	99.2	80	120	06/08/2021





## Quality Control Results

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

**Client:** Southern Illinois Power Cooperation

**Work Order:** 21060006

**Client Project:** Groundwater Monitoring

**Report Date:** 01-Jul-21

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

Batch 177503		SampType: MS		Units mg/L						
SampID: 21060006-003BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.543	0.5000	0	108.6	75	125	06/08/2021
Arsenic		0.0010		0.549	0.5000	0.0007421	109.6	75	125	06/08/2021
Beryllium		0.0010		0.0486	0.0500	0.001109	95.0	75	125	06/08/2021
Cadmium		0.0010		0.0517	0.0500	0.001530	100.3	75	125	06/08/2021
Chromium		0.0015		0.192	0.2000	0.0007841	95.7	75	125	06/08/2021
Cobalt		0.0010		0.495	0.5000	0.001655	98.7	75	125	06/08/2021
Lead		0.0010		0.504	0.5000	0	100.8	75	125	06/08/2021
Lithium	*	0.0030		0.500	0.5000	0.02057	95.9	75	125	06/08/2021
Molybdenum		0.0015		0.527	0.5000	0	105.4	75	125	06/08/2021
Selenium		0.0010		0.518	0.5000	0	103.7	75	125	06/08/2021
Thallium		0.0020		0.243	0.2500	0	97.2	75	125	06/08/2021

Batch 177503		SampType: MSD		Units mg/L							RPD Limit 20	
SampID: 21060006-003BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Antimony		0.0010		0.537	0.5000	0	107.4	0.5432	1.11	06/08/2021		
Arsenic		0.0010		0.547	0.5000	0.0007421	109.3	0.5485	0.22	06/08/2021		
Beryllium		0.0010		0.0493	0.0500	0.001109	96.5	0.04861	1.50	06/08/2021		
Cadmium		0.0010		0.0514	0.0500	0.001530	99.8	0.05168	0.47	06/08/2021		
Chromium		0.0015		0.198	0.2000	0.0007841	98.4	0.1921	2.79	06/08/2021		
Cobalt		0.0010		0.496	0.5000	0.001655	98.9	0.4952	0.21	06/08/2021		
Lead		0.0010		0.505	0.5000	0	101.0	0.5039	0.23	06/08/2021		
Lithium	*	0.0030		0.511	0.5000	0.02057	98.0	0.5001	2.09	06/08/2021		
Molybdenum		0.0015		0.522	0.5000	0	104.4	0.5272	1.02	06/08/2021		
Selenium		0.0010		0.513	0.5000	0	102.6	0.5184	1.09	06/08/2021		
Thallium		0.0020		0.258	0.2500	0	103.1	0.2429	5.90	06/08/2021		

### SW-846 7470A (TOTAL)

Batch 177506		SampType: MBLK		Units mg/L						
SampID: MBLK-177506										
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	06/03/2021



## Quality Control Results

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

**Client:** Southern Illinois Power Cooperation

**Work Order:** 21060006

**Client Project:** Groundwater Monitoring

**Report Date:** 01-Jul-21

**SW-846 7470A (TOTAL)**

Batch 177506		SampType: LCS		Units mg/L						
SampID: LCS-177506										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00492	0.0050	0	98.4	85	115	06/03/2021

Batch 177506		SampType: MS		Units mg/L						
SampID: 21060006-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00507	0.0050	0	101.4	75	125	06/03/2021

Batch 177506		SampType: MSD		Units mg/L							RPD Limit 15
SampID: 21060006-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		0.00497	0.0050	0	99.3	0.005068	2.05	06/03/2021	

Batch 177512		SampType: MBLK		Units mg/L						
SampID: MBLK-177512										
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	06/03/2021

Batch 177512		SampType: LCS		Units mg/L						
SampID: LCS-177512										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00514	0.0050	0	102.7	85	115	06/03/2021

Batch 177512		SampType: MS		Units mg/L						
SampID: 21060006-005BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00416	0.0050	0	83.1	75	125	06/03/2021

Batch 177512		SampType: MSD		Units mg/L							RPD Limit 15
SampID: 21060006-005BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		0.00408	0.0050	0	81.6	0.004157	1.88	06/03/2021	

Batch 177512		SampType: MS		Units mg/L						
SampID: 21060082-006DMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00508	0.0050	0	101.7	75	125	06/03/2021



## Quality Control Results

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

Client: Southern Illinois Power Cooperation

Work Order: 21060006

Client Project: Groundwater Monitoring

Report Date: 01-Jul-21

### SW-846 7470A (TOTAL)

Batch 177512		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 21060082-006DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		<b>0.00504</b>	0.0050	0	100.8	0.005083	0.82	06/03/2021	



# Receiving Check List

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

Client: Southern Illinois Power Cooperation

Work Order: 21060006

Client Project: Groundwater Monitoring

Report Date: 01-Jul-21

Carrier: Tim Mathis

Received By: ERH

Completed by: *Marvin L. Darling II*

Reviewed by: *Elizabeth A. Hurley*

On:

On:

01-Jun-21

01-Jun-21

Marvin L. Darling

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 <b>0.6</b>
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 type="checkbox"/>	No <input checked="" 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"/>		
<i>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.</i>				
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 checked="" type="checkbox"/>	No <input 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# 75145. ERH 6/1/21

Additional nitric acid (76862) was needed in EBG upon arrival at the laboratory. ERH 6/1/21

MS/MSD containers for EBG are field-labeled as EPG. ERH 6/1/21

# CHAIN OF CUSTODY

pg. 1 of 1 Work order # 2100000

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: jmclaurin@spower.org

Samples on:  ICE  BLUE ICE  NO ICE  OTC  DTC  
 Preserved in:  LAB  FIELD FOR LAB USE ONLY  
 Lab Notes: (S) 166 SAMPLE NO BY EMPLOYEE NOT MATCH  
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Client Comments: EH 0/1/20  
 ICP: Ba B C  
 ICP/MS: Sb As Be Cd Cr Co Pb Li Mo Se Ti  
 \* MS/MSD

Project Name/Number: Groundwater Monitoring  
 Sample Collector's Name: S. RILEY T. MATTHEWS  
 Billing Instructions: # and Type of Containers

Results Requested	Sample Identification	Date/Time Sampled	UNP	HNO3
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge)	EBG #	5/31/21 1344	1	1
<input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)	EP-1	5/31/21 1220	1	1
	EP-2	5/31/21 1144	1	1
	EP-3	5/31/21 1110	1	1
	EP-4	5/31/21 1012	1	1
	EQUIPMENT BANK S-51-21		1	1

MATRIX	Chloride	Field pH	Field Turbidity	Fluoride	ICP Metals	ICP/MS Metals	Mercury	Sulfate	TDS
Groundwater	X	X	X	X	X	X	X	X	X
Aquifers	X	X	X	X	X	X	X	X	X

Relinquished By: [Signature] Date/Time: 10.1.21 0850  
 Received By: [Signature] Date/Time: 0/1/21 0800