



Certificate of Analysis 4044117

Jayne Peltier
IDNR Division of Reclamation
14619 W State Rd 48
Jasonville, IN 47438

Customer ID: 44-100880
Report Printed: 04/30/2024 11:41

Project Name: Quarterly AML

Workorder: 4044117

Dear Jayne Peltier

Enclosed are the analytical results for samples received by the laboratory 04/12/2024 08:15.

The results relate to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services LLC Kentucky - Farmersburg
- Pace Analytical Services LLC Kentucky - Madisonville

If you have any questions concerning this report, please feel free to contact me.



#460210 Madisonville, KY
#460291 Pikeville, KY
#E871136 Englewood, OH

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Brett Davis For Rob Whittington, Project Manager



SAMPLE SUMMARY

Lab ID	Client Sample ID/Alias	Matrix	Date Collected	Date Received	Sampled By
4044117-01	AML Quarterly/1835 Stream 1	Water	04/11/2024 11:59	04/12/2024 8:15	Daniel Hillman
4044117-02	AML Quarterly/1835 Stream 2	Water	04/11/2024 13:15	04/12/2024 8:15	Daniel Hillman
4044117-03	AML Quarterly/1835 Haul Rd	Water	04/11/2024 12:30	04/12/2024 8:15	Daniel Hillman
<u>LabNumber</u>	<u>Measurement</u>	<u>Value</u>			
4044117-01	Field pH	6.3			
4044117-02	Field pH	5.5			
4044117-03	Field pH	6.4			



ANALYTICAL RESULTS

Lab Sample ID: **4044117-01**
 Description: **AML Quarterly 1835 Stream 1**

Sample Collection Date Time: 04/11/2024 11:59
 Sample Received Date Time: 04/12/2024 08:15

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Aluminum	0.81	M2	mg/L	0.05	0.04	EPA 200.7 REV 4.4	04/17/2024 08:30	04/22/2024 20:19	AKB
Calcium	298	D1, M3	mg/L	50.0	25.0	EPA 200.7 REV 4.4	04/17/2024 08:30	04/22/2024 20:25	AKB
Iron	3.78	B1, B	mg/L	0.100	0.025	EPA 200.7 REV 4.4	04/17/2024 08:30	04/22/2024 20:19	AKB
Magnesium	245	D1, M3	mg/L	10.0	2.00	EPA 200.7 REV 4.4	04/17/2024 08:30	04/22/2024 20:25	AKB
Manganese	1.15	D1	mg/L	0.040	0.020	EPA 200.7 REV 4.4	04/17/2024 08:30	04/22/2024 20:22	AKB

Conventional Chemistry Analyses Farmersburg

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Acidity	14		mg/L	5	2	2310 B-1997	04/16/2024 08:20	04/16/2024 09:20	RMM
Total Alkalinity	165		mg/L	4	4	2320 B-2011	04/15/2024 13:02	04/15/2024 13:59	DLP
pH (Lab)	7.37	H3	Std. Units	0.10	0.10	SM 4500-H+ B-2011	04/12/2024 08:58	04/12/2024 08:58	RMM

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Sulfate	1700	D1	mg/L	10.0	0.9	EPA 300.0 REV 2.1	04/22/2024 16:19	04/22/2024 16:19	JBP1



ANALYTICAL RESULTS

Lab Sample ID: **4044117-02**
 Description: **AML Quarterly 1835 Stream 2**

Sample Collection Date Time: 04/11/2024 13:15
 Sample Received Date Time: 04/12/2024 08:15

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Aluminum	0.65		mg/L	0.05	0.04	EPA 200.7 REV 4.4	04/17/2024 08:30	04/22/2024 20:28	AKB
Calcium	266	D1	mg/L	50.0	25.0	EPA 200.7 REV 4.4	04/17/2024 08:30	04/22/2024 20:34	AKB
Iron	1.77		mg/L	0.100	0.025	EPA 200.7 REV 4.4	04/25/2024 09:18	04/29/2024 17:06	AKB
Magnesium	177	D1	mg/L	10.0	2.00	EPA 200.7 REV 4.4	04/17/2024 08:30	04/22/2024 20:34	AKB
Manganese	13.4	D1	mg/L	0.400	0.200	EPA 200.7 REV 4.4	04/17/2024 08:30	04/22/2024 20:34	AKB

Conventional Chemistry Analyses Farmersburg

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Acidity	30		mg/L	5	2	2310 B-1997	04/16/2024 08:20	04/16/2024 09:22	RMM
Total Alkalinity	100		mg/L	4	4	2320 B-2011	04/15/2024 13:02	04/15/2024 14:02	DLP
pH (Lab)	6.86	H3	Std. Units	0.10	0.10	SM 4500-H+ B-2011	04/12/2024 08:58	04/12/2024 08:58	RMM

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Sulfate	1180	D1	mg/L	10.0	0.9	EPA 300.0 REV 2.1	04/22/2024 16:44	04/22/2024 16:44	JBP1



ANALYTICAL RESULTS

Lab Sample ID: **4044117-03**
 Description: **AML Quarterly 1835 Haul Rd**

Sample Collection Date Time: 04/11/2024 12:30
 Sample Received Date Time: 04/12/2024 08:15

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Aluminum	0.12		mg/L	0.05	0.04	EPA 200.7 REV 4.4	04/17/2024 08:30	04/22/2024 20:38	AKB
Calcium	271	D1	mg/L	50.0	25.0	EPA 200.7 REV 4.4	04/17/2024 08:30	04/22/2024 20:54	AKB
Iron	23.1	B1, D1, B	mg/L	1.00	0.250	EPA 200.7 REV 4.4	04/17/2024 08:30	04/22/2024 20:41	AKB
Magnesium	133	D1	mg/L	10.0	2.00	EPA 200.7 REV 4.4	04/17/2024 08:30	04/22/2024 20:54	AKB
Manganese	0.954		mg/L	0.004	0.002	EPA 200.7 REV 4.4	04/17/2024 08:30	04/22/2024 20:38	AKB

Conventional Chemistry Analyses Farmersburg

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Acidity	57		mg/L	5	2	2310 B-1997	04/16/2024 08:20	04/16/2024 09:24	RMM
Total Alkalinity	161		mg/L	4	4	2320 B-2011	04/15/2024 13:02	04/15/2024 14:05	DLP
pH (Lab)	6.71	H3	Std. Units	0.10	0.10	SM 4500-H+ B-2011	04/12/2024 08:58	04/12/2024 08:58	RMM

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Sulfate	1120	D1	mg/L	10.0	0.9	EPA 300.0 REV 2.1	04/22/2024 17:09	04/22/2024 17:09	JBP1



Notes for work order 4044117

- Samples collected by PACE personnel are done so in accordance with procedures set forth in PACE field services SOPs .
- Results contained in this report are only representative of the samples received.
- PACE does not provide interpretation of these results unless otherwise stated .
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identification based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.

Qualifiers

- B Target analyte detected in method blank at or above the method reporting limit.
- B1 Target analyte detected in method blank at or above the method reporting limit . Concentration found in the sample was 10 times above the concentration found in the method blank.
- D Results reported from dilution.
- D1 Sample required dilution due to high concentration of target analyte.
- D2 Sample required dilution due to matrix interference.
- H3 Sample received and analyzed past holding time.
- M1 Matrix spike recovery was high; the method control sample recovery was acceptable.
- M2 Matrix spike recovery was low; the method control sample recovery was acceptable.
- M3 The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
- U Target analyte was analyzed for, but was below detection limit (the value associated with the qualifier is the laboratory method detection limit in our LIMS system).

Standard Qualifiers/Acronyms

- MDL Method Detection Limit
- MRL Minimum Reporting Limit
- ND Not Detected
- LCS Laboratory Control Sample
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Sample Duplicate
- % Rec Percent Recovery
- RPD Relative Percent Difference
- > Greater than
- < Less than



Metals by EPA 200 Series Methods Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch BDD1797 - EPA 200.2

Blank (BDD1797-BLK1)

Prepared: 4/17/2024 8:30, Analyzed: 4/22/2024 19:37

Aluminum	ND	0.05	mg/L							U
Calcium	ND	0.50	mg/L							U
Iron	0.216	0.100	mg/L							B
Magnesium	ND	0.100	mg/L							U
Manganese	ND	0.004	mg/L							U

Blank (BDD1797-BLK3)

Prepared: 4/17/2024 8:30, Analyzed: 4/23/2024 13:08

Iron	0.217	0.100	mg/L							B
------	-------	-------	------	--	--	--	--	--	--	---

LCS (BDD1797-BS1)

Prepared: 4/17/2024 8:30, Analyzed: 4/22/2024 19:41

Aluminum	0.07	0.05	mg/L	0.0625		114	85-115			
Calcium	6.73	0.50	mg/L	6.25		108	85-115			
Iron	6.63	0.100	mg/L	6.25		106	85-115			B
Magnesium	6.65	0.100	mg/L	6.25		106	85-115			
Manganese	0.067	0.004	mg/L	0.0625		108	85-115			

LCS (BDD1797-BS3)

Prepared: 4/17/2024 8:30, Analyzed: 4/23/2024 13:11

Iron	6.57	0.100	mg/L	6.25		105	85-115			B
------	------	-------	------	------	--	-----	--------	--	--	---

Matrix Spike (BDD1797-MS1)

Source: 4041223-01

Prepared: 4/17/2024 8:30, Analyzed: 4/22/2024 21:38

Aluminum	0.32	0.05	mg/L	0.0625	0.24	128	80-120			M1
Calcium	86.3	0.50	mg/L	6.25	78.6	123	80-120			M3
Iron	13.6	0.100	mg/L	6.25	6.82	109	80-120			B
Magnesium	26.3	0.100	mg/L	6.25	19.8	105	80-120			
Manganese	2.79	0.004	mg/L	0.0625	2.67	182	80-120			M3

Matrix Spike (BDD1797-MS2)

Source: 4044117-01

Prepared: 4/17/2024 8:30, Analyzed: 4/22/2024 21:45

Aluminum	0.86	0.50	mg/L	0.0625	0.81	87.9	80-120			D2
Calcium	291	5.00	mg/L	6.25	298	NR	80-120			D2, M3
Iron	10.5	1.00	mg/L	6.25	3.78	108	80-120			D2, B
Magnesium	230	1.00	mg/L	6.25	245	NR	80-120			D2, M3
Manganese	1.23	0.040	mg/L	0.0625	1.15	136	80-120			D2



Metals by EPA 200 Series Methods Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch BDD1797 - EPA 200.2

Matrix Spike Dup (BDD1797-MSD1) Source: 4041223-01

Prepared: 4/17/2024 8:30, Analyzed: 4/22/2024 21:41

Aluminum	0.30	0.05	mg/L	0.0625	0.24	108	80-120	4.09	20	
Calcium	83.0	0.50	mg/L	6.25	78.6	70.5	80-120	3.86	20	M3
Iron	13.5	0.100	mg/L	6.25	6.82	106	80-120	1.10	20	B
Magnesium	25.7	0.100	mg/L	6.25	19.8	94.4	80-120	2.44	20	
Manganese	2.68	0.004	mg/L	0.0625	2.67	16.9	80-120	3.77	20	M3

Matrix Spike Dup (BDD1797-MSD2) Source: 4044117-01

Prepared: 4/17/2024 8:30, Analyzed: 4/22/2024 21:48

Aluminum	0.84	0.50	mg/L	0.0625	0.81	52.5	80-120	2.60	20	D2, M2
Calcium	280	5.00	mg/L	6.25	298	NR	80-120	3.80	20	D2, M3
Iron	10.1	1.00	mg/L	6.25	3.78	101	80-120	4.10	20	D2, B
Magnesium	222	1.00	mg/L	6.25	245	NR	80-120	3.36	20	D2, M3
Manganese	1.19	0.040	mg/L	0.0625	1.15	70.9	80-120	3.34	20	D2

Batch BDD2704 - EPA 200.2

Blank (BDD2704-BLK2)

Prepared: 4/25/2024 9:18, Analyzed: 4/29/2024 16:24

Iron	ND	0.100	mg/L							U
------	----	-------	------	--	--	--	--	--	--	---

LCS (BDD2704-BS2)

Prepared: 4/25/2024 9:18, Analyzed: 4/29/2024 16:28

Iron	5.97	0.100	mg/L	6.25		95.5	85-115			
------	------	-------	------	------	--	------	--------	--	--	--

Matrix Spike (BDD2704-MS3) Source: 4042362-01RE1

Prepared: 4/25/2024 9:18, Analyzed: 4/29/2024 17:22

Iron	6.12	0.100	mg/L	6.25	ND	98.0	80-120			
------	------	-------	------	------	----	------	--------	--	--	--

Matrix Spike (BDD2704-MS4) Source: 4044111-04RE1

Prepared: 4/25/2024 9:18, Analyzed: 4/29/2024 17:28

Iron	6.30	0.100	mg/L	6.25	0.211	97.4	80-120			
------	------	-------	------	------	-------	------	--------	--	--	--



Metals by EPA 200 Series Methods Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch BDD2704 - EPA 200.2

Matrix Spike Dup (BDD2704-MSD3) Source: 4042362-01RE1

Prepared: 4/25/2024 9:18, Analyzed: 4/29/2024 17:25

Iron	6.19	0.100	mg/L	6.25	ND	99.0	80-120	1.07	20	
------	------	-------	------	------	----	------	--------	------	----	--

Matrix Spike Dup (BDD2704-MSD4) Source: 4044111-04RE1

Prepared: 4/25/2024 9:18, Analyzed: 4/29/2024 17:31

Iron	6.29	0.100	mg/L	6.25	0.211	97.3	80-120	0.0383	20	
------	------	-------	------	------	-------	------	--------	--------	----	--



Conventional Chemistry Analyses Farmersburg - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch BDD1460 - Default Prep Wet Chem 5

LCS (BDD1460-BS1)

Prepared: 4/12/2024 8:58, Analyzed: 4/12/2024 8:58

pH (Lab)	7.09		Std. Units	7.00		101	98.5-101.5			
----------	------	--	------------	------	--	-----	------------	--	--	--

Duplicate (BDD1460-DUP1) Source: 4044109-01

Prepared: 4/12/2024 8:58, Analyzed: 4/12/2024 8:58

pH (Lab)	6.89	0.10	Std. Units		7.07			2.58	10	H3
----------	------	------	------------	--	------	--	--	------	----	----

Batch BDD1680 - Default Prep Wet Chem 5

Blank (BDD1680-BLK1)

Prepared: 4/15/2024 13:02, Analyzed: 4/15/2024 13:22

Total Alkalinity	ND	4	mg/L							U
------------------	----	---	------	--	--	--	--	--	--	---

LCS (BDD1680-BS1)

Prepared: 4/15/2024 13:02, Analyzed: 4/15/2024 13:31

Total Alkalinity	247	4	mg/L	250		98.8	80-120			
------------------	-----	---	------	-----	--	------	--------	--	--	--

Duplicate (BDD1680-DUP1) Source: 4044165-04

Prepared: 4/15/2024 13:02, Analyzed: 4/15/2024 13:50

Total Alkalinity	920	4	mg/L		907			1.42	10	
------------------	-----	---	------	--	-----	--	--	------	----	--

Matrix Spike (BDD1680-MS1) Source: 4044165-04

Prepared: 4/15/2024 13:02, Analyzed: 4/15/2024 13:38

Total Alkalinity	1060	4	mg/L	125	907	122	80-120			M1
------------------	------	---	------	-----	-----	-----	--------	--	--	----

Batch BDD1781 - Default Prep Wet Chem 5

Blank (BDD1781-BLK1)

Prepared: 4/16/2024 8:20, Analyzed: 4/16/2024 8:35

Acidity	ND	5	mg/L							U
---------	----	---	------	--	--	--	--	--	--	---

LCS (BDD1781-BS1)

Prepared: 4/16/2024 8:20, Analyzed: 4/16/2024 8:37

Acidity	777	5	mg/L	730		106	80-120			
---------	-----	---	------	-----	--	-----	--------	--	--	--



Conventional Chemistry Analyses Farmersburg - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BDD1781 - Default Prep Wet Chem 5										
Duplicate (BDD1781-DUP1) Source: 4044117-03										
Prepared: 4/16/2024 8:20, Analyzed: 4/16/2024 9:27										
Acidity	59	5	mg/L		57			3.09	25	



Ion Chromatography Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch BDD2298 - Default Prep IC

Blank (BDD2298-BLK1)

Prepared: 4/20/2024 5:24, Analyzed: 4/20/2024 5:24

Sulfate	0.4	1.0	mg/L							
---------	-----	-----	------	--	--	--	--	--	--	--

LCS (BDD2298-BS1)

Prepared: 4/20/2024 4:57, Analyzed: 4/20/2024 4:57

Sulfate	25.2		mg/L	25.0		101	90-110			
---------	------	--	------	------	--	-----	--------	--	--	--

Matrix Spike (BDD2298-MS1) Source: 4040007-01

Prepared: 4/20/2024 3:07, Analyzed: 4/20/2024 3:07

Sulfate	47.7		mg/L	25.0	23.1	98.5	80-120			
---------	------	--	------	------	------	------	--------	--	--	--

Matrix Spike (BDD2298-MS2) Source: 4044117-01

Prepared: 4/20/2024 4:02, Analyzed: 4/20/2024 4:02

Sulfate	1220		mg/L	25.0	1530	NR	80-120			M2
---------	------	--	------	------	------	----	--------	--	--	----

Matrix Spike Dup (BDD2298-MSD1) Source: 4040007-01

Prepared: 4/20/2024 3:34, Analyzed: 4/20/2024 3:34

Sulfate	51.0		mg/L	25.0	23.1	112	80-120	6.60	20	
---------	------	--	------	------	------	-----	--------	------	----	--

Matrix Spike Dup (BDD2298-MSD2) Source: 4044117-01

Prepared: 4/20/2024 4:29, Analyzed: 4/20/2024 4:29

Sulfate	1230		mg/L	25.0	1530	NR	80-120	1.45	20	M2
---------	------	--	------	------	------	----	--------	------	----	----

Batch BDD2299 - Default Prep IC

Blank (BDD2299-BLK1)

Prepared: 4/20/2024 5:08, Analyzed: 4/20/2024 5:08

Sulfate	0.3	1.0	mg/L							
---------	-----	-----	------	--	--	--	--	--	--	--

LCS (BDD2299-BS1)

Prepared: 4/20/2024 4:43, Analyzed: 4/20/2024 4:43

Sulfate	25.3		mg/L	25.0		101	90-110			
---------	------	--	------	------	--	-----	--------	--	--	--

Matrix Spike (BDD2299-MS1) Source: 4044207-01

Prepared: 4/20/2024 3:01, Analyzed: 4/20/2024 3:01

Sulfate	47.7		mg/L	25.0	20.4	109	80-120			
---------	------	--	------	------	------	-----	--------	--	--	--



Ion Chromatography Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch BDD2299 - Default Prep IC

Matrix Spike (BDD2299-MS2) Source: 4044675-14

Prepared: 4/20/2024 3:52, Analyzed: 4/20/2024 3:52

Sulfate	785		mg/L	500	47.4	147	80-120			M1, D
---------	-----	--	------	-----	------	-----	--------	--	--	-------

Matrix Spike Dup (BDD2299-MSD1) Source: 4044207-01

Prepared: 4/20/2024 3:27, Analyzed: 4/20/2024 3:27

Sulfate	44.6		mg/L	25.0	20.4	96.7	80-120	6.68	20	
---------	------	--	------	------	------	------	--------	------	----	--

Matrix Spike Dup (BDD2299-MSD2) Source: 4044675-14

Prepared: 4/20/2024 4:17, Analyzed: 4/20/2024 4:17

Sulfate	730		mg/L	500	47.4	137	80-120	7.23	20	D, M1
---------	-----	--	------	-----	------	-----	--------	------	----	-------

Certified Analyses included in this Report

Analyte	Certifications
---------	----------------

EPA 200.7 REV 4.4 in Water

Aluminum	VA NELAC MDV (460210) KY Wastewater Mdv (00030) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431
Calcium	VA NELAC MDV (460210) KY Drinking Water Mdv (00030) KY Wastewater Mdv (00030) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431 MS Drinking Water MADV
Cadmium	VA NELAC MDV (460210) KY Wastewater Mdv (00030) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431
Copper	VA NELAC MDV (460210) KY Wastewater Mdv (00030) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431
Iron	KY Wastewater Mdv (00030) VA NELAC MDV (460210) KY Drinking Water Mdv (00030) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431 NC Drinking Water (21706) MS Drinking Water MADV
Magnesium	VA NELAC MDV (460210) KY Wastewater Mdv (00030) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431 NC Drinking Water (21706)
Manganese	VA NELAC MDV (460210) KY Wastewater Mdv (00030) KY Drinking Water Mdv (00030) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431 NC Drinking Water (21706) MS Drinking Water MADV
Nickel	VA NELAC MDV (460210) KY Wastewater Mdv (00030) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431
Zinc	VA NELAC MDV (460210) KY Wastewater Mdv (00030) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431

EPA 200.8 REV 5.4 in Water

Nickel	VA NELAC MDV (460210) KY Wastewater Mdv (00030) KY Drinking Water Mdv (00030) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431 NC Drinking Water (21706)
--------	--

EPA 300.0 REV 2.1 in Water

Sulfate	KY Drinking Water Mdv (00030) VA NELAC MDV (460210) KY Wastewater Mdv (00030) TN Drinking Water (02819) WV Wastewater Madisonville (241), 825 Industrial Rd Madisonville, KY 42431
---------	--



Sample Acceptance Checklist for Work Order 4044117

Shipped By: Pace Analytical Services LL

Temperature: 4.30° Celcius

Condition

Check if Custody Seals are Present/Intact	<input type="checkbox"/>
Check if Custody Signatures are Present	<input checked="" type="checkbox"/>
Check if Collector Signature Present	<input checked="" type="checkbox"/>
Check if bottles are intact	<input checked="" type="checkbox"/>
Check if bottles are correct	<input checked="" type="checkbox"/>
Check if bottles have sufficient volume	<input checked="" type="checkbox"/>
Check if samples received on ice	<input checked="" type="checkbox"/>
Check if VOA headspace is acceptable	<input type="checkbox"/>
Check if samples received in holding time.	<input checked="" type="checkbox"/>
Check if samples are preserved properly	<input checked="" type="checkbox"/>



CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY - Affix Worker/ID/Label Here or List Pace Worker Number or MTJL Log-In Number Here

ALL SHADED AREAS are for LAB USE ONLY

4644117

Company: IDNR - Division of Reclamation

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Address: 14619 West State Road 48, Jasonville, IN 47438

IDNR - Division of Reclamation
Aun Kam Thobal
Jasonville, IN 47438

Report To: Andy Ripley

Email To: Arj@dnr.in.gov

Customer Project Name/Number: 1835

Site Collection Info/Address:

Phone: 812-665-2207
Email: Arj@dnr.in.gov

State: / County/City: / Time Zone: Collected / PT MT CT ET

Collected by (print): Danielle Williams

Purchase Order # / DW PWS ID # / Compliance Monitoring? [] Yes [X] No

Collected by (signature): Danielle Williams

Quote # / Turnaround Date Required: / DW Location Code #:

Sample Disposal: [X] Dispose as appropriate [] Return [] Archive [] Hold

RUSH: Same Day Next Day 2 Day 3 Day 4 Day 5 Day Field Filtered (if applicable): [] Yes [X] No [] Yes [] No

Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WF), Air (AF), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix*	Collected		Res Cl	# of Chs	Acidity, Alkalinity, pH lab, SO4	Al, Fe, Mn	Al, Fe, Mn, Ca, Mg	LAB Sample Receipt Checklist:
		Comp/Grab	(or Composite Start) Date Time						
1835 Stream 2 ph: 6.3 flow: high	OT	G	04-11-24 11:59 AM	-	2	1	1	1	Custody Seals Present/Intact: Y N NA Custody Signatures Present: Y N NA Collector Signatures Present: Y N NA Bottles Intact: Y N NA Correct Bottles: Y N NA Sufficient Volume: Y N NA Samples received on ice: Y N NA VOA - Headspace Acceptable: Y N NA USDA Regulated Soils: Y N NA Samples in holding time: Y N NA Residual Chlorine Present: Y N NA CI Strips: Y N NA Sample pH Acceptable: Y N NA pH Strips: Y N NA Sulfide Present: Y N NA Lead Acetate Strips: Y N NA
1835 Stream 1 ph: 5.5 flow: high	OT	G	04-11-24 1:15 PM	-	3	2	1	1	Thermometer Serial Number: 192730243 Temp: 18.1458729 °C
1835 Haul Rd ph: 6.4 flow: normal	OT	G	04-11-24 12:30 PM	-	3	2	1	1	Thermometer Serial Number: 181458729 Temp: 18.1458729 °C

Customer Remarks/ Special Conditions/ Possible Hazards:

Type of Ice Used: Well [] Blue [] Dry [] None []

SHORT HOLDS PRESENT (< 72 hours): Y N N/A

MTJL LAB USE ONLY

LAB Sample Temperature Info: Temp Blank received: Y N NA

Requisition by/Company (Signature)	Date/Time	Received by/Company (Signature)	Date/Time
Danielle Williams	4/11/24 4:00 PM	Andy Ripley	4/11/24 8:15 AM
Andy Ripley	4/11/24 8:15 AM	Andy Ripley	4/11/24 8:15 AM

Requisition by/Company (Signature): Danielle Williams
 Date/Time: 4/11/24 4:00 PM
 Received by/Company (Signature): Andy Ripley
 Date/Time: 4/11/24 8:15 AM
 Requisition by/Company (Signature): Andy Ripley
 Date/Time: 4/11/24 8:15 AM