

PRE-BID MEETING SUMMARY

PROJECT NAME: Mill Creek

PROJECT NUMBER: DEL2515208031 E008342

DATE: November 7, 2025

THE INFORMATION CONTAINED IN THIS SUMMARY IS INTENDED TO CORRECT ANY COMPOSITION ERRORS AND SERVE TO ELIMINATE ANY MISUNDERSTANDING OF THE BASIC PLANS AND SPECIFICATIONS THE SAME AS IF BEING ORIGINALLY INCORPORATED THEREIN.

1. DNR STAFF IN ATTENDANCE

- a. Brandy Gibson, Operations Coordinator
- b. Kit Turpin, AML Director
- c. Travis Dunn, Chief Project Manager
- d. Shannon Baumgart, Project Manager
- e. Ben Booher, Environmental Specialist
- f. Andy Ripley, AML Deputy Director

2. OTHER ATTENDEES

- a. Ken Bosar, Patriot Engineering, Project Engineer
- b. Ed Joniskton, Patriot Engineering, Project Manager

3. BID INFORMATION

- a. The plans and specifications are available at [DNR: Engineering: DNR Projects Bidding Information](http://www.in.gov/dnr/engineering/bidding/). (www.in.gov/dnr/engineering/bidding/).
- b. The bids are due in Indianapolis, as described in the NTB.
- c. The **bid opening is scheduled for December 9, 2025, at 2:00 PM.**
- d. This project has an estimate of over \$150,000; **pre-qualification by Public Works in 1799.04 Mine Reclamation is required.**
- e. Pre-Qualification questions can be made to Tracy Cross with the Department of Administration, Public Works Division, at (317)232-3255.

4. CONTRACT INFORMATION

- a. The contract will be funded by utilizing federal AML grant reimbursement funds.
- b. Base bid quantities are identified in the specifications. The Schedule of Supplemental Unit Price Sheet must be submitted with the bid.
- c. The **2024 AML Standard Specifications** are located on the AML Construction page:
<https://www.in.gov/dnr/reclamation/abandoned-mines/aml-contractors-and-bidding/>.
- d. A contract and purchase order **may** be in place within **6-10 weeks from the bid date (late JAN/FEB)**.
- e. The contractor must schedule a pre-construction meeting with the Division of Reclamation within 10 calendar days of the date on the notification to proceed prior to starting construction.
- f. The **Construction End Date is April 1, 2027**.
- g. There is a **penalty assessment for late completion** at a rate of **\$1,000 per calendar day**.
- h. The **contractor is to include a \$100,000 remediation allowance** in the base bid for owner directed changes. There will be a line item on the schedule of values.
- i. Minority and Women Business goals have been established and are identified in the NTB.
- j. AVS Checks will be performed on the low bidder to ensure no negative history in the federal mine database (bond forfeitures and outstanding violations).
- k. Davis Bacon prevailing wage is required on this project. Contractors **MUST** use Davis Bacon wage determination rates to pay their employees and certify their payroll each week. Certified payroll should be submitted weekly to the operations coordinator, Brandy Gibson, at cgibson@dnr.in.gov.
- l. Build America Buy America is required on this project. Contractors **MUST** comply with the Buy-America guidelines.

5. BRIEF PROJECT DESCRIPTION

Clear and grub, backfill highwalls, eliminate dangerous piles, improve drainage, construct new ponds, and revegetate site to enhance wildlife and recreation opportunities.

6. GENERAL COMMENTS

Project Manager Comments

County Road 650E, also known as "Hartwell Road," is planned to be closed during construction. The contractor is required to post signage and place barricades at each end of 650E. Barricades will be placed on both ends of the construction area as well. An ongoing offsite logging operation will require log trucks to continue hauling as necessary for as long as possible. At the time when the road is no longer usable, the contractor will give the DNR Project Manager at least a week of notice so Pike State Forest Manager Jammie Winner can make other arrangements. The same goes for reopening the road to logging trucks. A week's notice shall be given.

Guard rails, posts, and signs will be removed and salvaged for the Pike County Garage. Josh Byrd 812-354-9743

All trees within the Project area will be chipped and stockpiled on site then spread during final reclamation. Please note that a large area in the center of the project will remain undisturbed and existing trees will be preserved. This means cutting through and off the project area will not be permitted.

Please make note of the seep drain elevations near the east side of the project.

The project is expected to have some bad material that will be removed and disposed of at the location shown on the plans

Project Engineer Comments

1. Disturbance in the "forested Wetland" area north of the ponds on sheet 5 (shown in green on the sheet) shall be minimized. No grass planting is required in undisturbed areas; DNR will plant the trees.
2. Sediment and vegetation in existing Pond 4 area immediately west of the gabion wall (sheet 6) shall be removed. Sediment shall be placed in the "Area for Unsuitable Spoil Material" shown on the west side of sheet 6. The gabion structure on the east side of Pond 4 shown on sheet 6 is to remain in place with minimal disturbance. The trees on top and along the gabions shall be removed. Soil fill shall be placed against the gabions on the west face as shown on the plans.
3. The area east of Pond 4 (sheet 6) where Ponds 1 and 3 discharge may require regrading to improve and promote drainage.

4. The beginning (upstream end) of proposed Ditch Line C shown on sheet 7 shall be transitioned to the existing stream immediately west of Ditch Line C for continuity of flow into Ditch Line C from offsite.
5. The underdrain piping shown on sheet 6 shall be installed in the existing ground before fill is placed in the piping areas shown.

Environmental Specialist Comments

We do have water samples. The results and a map of the sample locations will be posted to the bid page.

Water quality is very poor, pH 4.5 or lower

Water Resources

	Existing	To be constructed
Streams	3,765 linear feet	5,879 linear feet
Open Water	2.03 acres	2.3 acres
Forested Wetland	2.65 acres	1.29 acres
Emergent Wetland	0.67 acres	1.29 acres

Tree clearing can only occur between October 1st and April 1st due to bat protection. All water discharged off site must meet “new acid source” standards defined in NPDES Rule 7.

7. QUESTIONS & COMMENTS

1. Q: Is the intent to build what's on the plans or something close to what's in the plans?
A: The intent is to build what is in the plans. We can make adjustments if needed, but the intent is to build what's on the plans.
2. Q: Are AutoCAD plans available, so we can build a model?
A: CAD plans are posted on the Bid page.
3. Q: There's an area that's already a 3:1 slope, and we got to catch a stream at the bottom, and it makes us take that 3 to one all the way to the top maybe even potentially beyond the grading limits. Sometimes blending at the bottom on a 3 to one slope doesn't work at the top of the slope.
A: If there is something on the plans that does not match field conditions, please let us know. Small adjustments can be made in the field with approval from the project manager.
4. Q: It was mentioned that there is a clump of trees that may be left.
A: The trees are not in the project limits. We just want to be sure the contractor is aware that they will not be cleared.
5. Q: If we left trees and had to come out later, how is that going to work with the bat date.
A: You can only clear trees October 1st-April 1st due to bat protection.
6. Q: Do we have any data on the water samples?
A: Yes, they will be posted to the bid page with the pre bid meeting summary.
7. Q: Should the CAD model be based on break lines or contours?
A: Contours.
8. Q: Where should stumps be placed?
A: Stumps should be placed at the location shown on the plan or otherwise approved by the project manager.
9. Q: Do we need to factor clearing for stump piles, or are we going to put them within the construction limit?
A: The intent is to place stumps on the line without additional clearing.

10. Q: Does the county road have to be maintained?

A: It needs to be left in the same condition it was found in.

Gravel was not included in the plans but will be needed. Any rock that you need to reconstruct the gravel road should be **included in your lump sum bid**. This is important. This is about 300 feet. It depends on how careful you are when using the road. The staging area uses a lot of rock. Maybe some of that could be reused at the end.

11. Q: Is the project Sales Tax Exempt?

A: Yes

12. Q: Sheet 3 shows two 11' wide gates and Detail 11, Sheet 12 shows two 8' wide gates. Please clarify.

A: The detail on Sheet 12 is correct. It calls for 2–8 foot steel tube green gates to be installed.

13. Q: The grading plans do not show the existing bottom contours of the existing ponds. Is there a bathymetric survey to know the depths of the ponds?

A: No bathymetric survey was completed during the design as there was no water present at that time. During the spring, 1-5 foot of water is to be expected in all existing ponds. The eastern pond is almost entirely silted.

14. Q: Is there a Geotechnical report available?

A: Yes

15. Q: Are there any water sample reports for the existing ponds on-site?

A: Yes, they will be added to this summary document. (SEE BELOW)

16. Q: At the pre-bid, it was said that the completion was spring of 2027. The project information sheet says 11/30/2026. Assumption for spring completion was to allow for seeding. Please clarify.

A: The end date will be 11/30/2026.

17. Q: The plans show Class 1 Riprap placement at 5 locations (end of ditch I, G, H, O, and E) that are not mentioned on the schedule of base bid items. What detail should we use for the depth of the stone? Are these tonnages included in the total #12 Riprap, Class 1 item?

A: The Schedule of Base Bid Quantities Item 12 indicates 2,778 tons of Class I riprap. The tonnages for the aprons at the end of the indicated ditches are included in the Item 12 total. Class I riprap shall be placed 2 feet thick (same as depth shown on corresponding Ditch Line details, Sheet 12. The aprons also include geotextile under the riprap which is included in Item 17, Geotextile).

18. Q: It was discussed at the prebid that there are areas of S CR 650 E we cannot cross. Please clarify on the plans where we are allowed to cross the road.

A: CR 650 E can be crossed anywhere within the project limits. The totality of the Project Limits is best shown on Sheet 11.

19. Q: Please clarify the locations of #14 Compacted Aggregate No. 53. The three locations so far found were the offsite access road, relocated forestry road, and the staging/mixing area. If these are the only locations, believe item #14 is excessive in quantity.

A: The staging area at the north end of the project receives 6 inches of #53 aggregate also (no geotextile). This was not noted on the drawings and was an oversight by the Engineer.

20. Q: Concerning the staging/mixing area, what is the intent of the #53 after mixing is completed?

A: #53 aggregate will be reused to repair CR 650. Rock that is not acceptable for reuse will be covered with dirt and revegetated.

8. ADDENDUM ITEMS

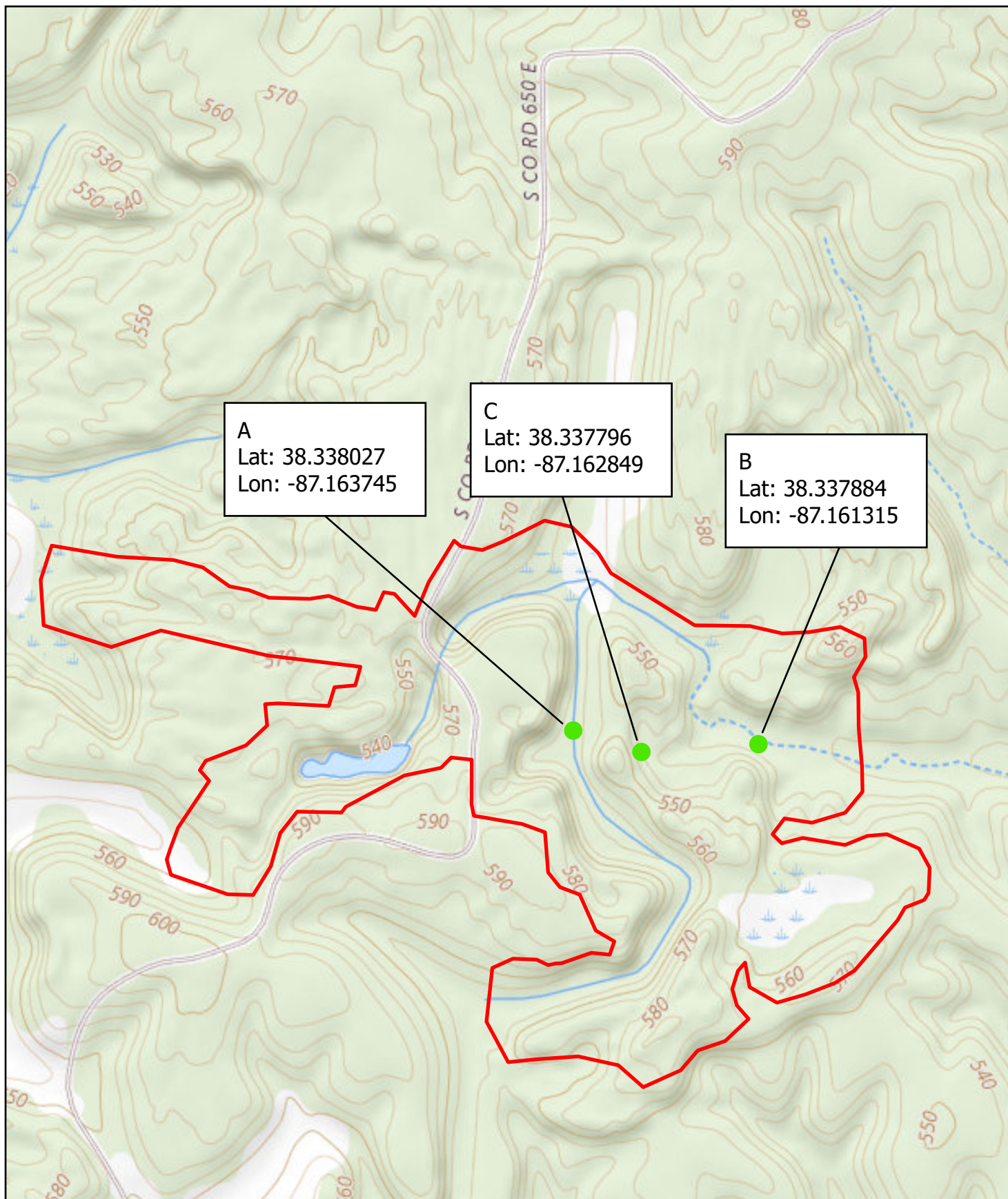
9. ADDITIONAL QUESTIONS

Questions after the pre-bid meeting will be received via email at cgibson@dnr.in.gov by the close of business on November 14, 2025.

Any Clarification points will be provided on the [DNR: Engineering: DNR Projects Bidding Information](#) page no later than the close of business on November 21, 2025.

CBNG 11/4/2025

END





A
Lat: 38.338027
Lon: -87.163745

C
Lat: 38.337796
Lon: -87.162849

B
Lat: 38.337884
Lon: -87.161315

0 0.04 0.09 0.17 0.26 0.34 Miles

- Legend**
-  Project Boundary
 -  Sampling Point

309 - Mill Creek Highwall Water Sampling Map





Certificate of Analysis 4065398

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

Customer ID: 44-100880
Report Printed: 07/09/2024 14:16

Project Name: Quarterly AML

Workorder: 4065398

Dear Jayne Peltier

Enclosed are the analytical results for samples received by the laboratory 06/27/2024 09:30.

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.

Rob Whittington, Project Manager



Pace Analytical Services, LLC

P.O. Box 907

Madisonville, KY 42431

270.821.7375

www.pacelabs.com

SAMPLE SUMMARY

Lab ID	Client Sample ID/Alias	Matrix	Date Collected	Date Received	Sampled By
4065398-01	AML Quarterly/309A	Water	06/26/2024 12:32	06/27/2024 9:30	Daniel Hillman
4065398-02	AML Quarterly/309B	Water	06/26/2024 13:33	06/27/2024 9:30	Daniel Hillman
4065398-03	AML Quarterly/309C	Water	06/26/2024 13:46	06/27/2024 9:30	Daniel Hillman
<u>LabNumber</u>	<u>Measurement</u>	<u>Value</u>			
4065398-01	Field pH	6.6			
4065398-02	Field pH	2.1			
4065398-03	Field pH	3.1			



ANALYTICAL RESULTS

Lab Sample ID: **4065398-01**
Description: **AML Quarterly 309A**

Sample Collection Date Time: 06/26/2024 12:32
Sample Received Date Time: 06/27/2024 09:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Aluminum	1.04	D1	mg/L	0.50	0.40	EPA 200.7 REV 4.4	07/02/2024 09:31	07/05/2024 15:15	AKB
Iron	7.13		mg/L	0.100	0.025	EPA 200.7 REV 4.4	07/02/2024 09:31	07/02/2024 18:24	AKB
Manganese	1.28	D1	mg/L	0.040	0.020	EPA 200.7 REV 4.4	07/02/2024 09:31	07/05/2024 15:15	AKB

Conventional Chemistry Analyses Farmersburg

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Acidity	14		mg/L	5	2	2310 B-1997	06/27/2024 14:51	06/27/2024 15:08	DLP
Total Alkalinity	5		mg/L	4	4	2320 B-2011	06/28/2024 11:42	06/28/2024 13:41	DLP
pH (Lab)	4.97	H3	Std. Units	0.10	0.10	SW846-9045	06/27/2024 09:48	06/27/2024 09:48	DLP

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Sulfate	131	D	mg/L	20.0	20.0	EPA 300.0 REV 2.1	06/30/2024 18:10	06/30/2024 18:10	JBP1

ANALYTICAL RESULTS

Lab Sample ID: **4065398-02**
Description: **AML Quarterly 309B**

Sample Collection Date Time: 06/26/2024 13:33
Sample Received Date Time: 06/27/2024 09:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Aluminum	12.3	D1	mg/L	0.50	0.40	EPA 200.7 REV 4.4	07/02/2024 09:31	07/05/2024 15:19	AKB
Iron	16.0	D1	mg/L	1.00	0.250	EPA 200.7 REV 4.4	07/02/2024 09:31	07/03/2024 14:38	AKB
Manganese	24.6	D1	mg/L	0.400	0.200	EPA 200.7 REV 4.4	07/02/2024 09:31	07/05/2024 15:22	AKB

Conventional Chemistry Analyses Farmersburg

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Acidity	189		mg/L	5	2	2310 B-1997	06/27/2024 14:51	06/27/2024 15:12	DLP
Total Alkalinity	ND	U	mg/L	4		2320 B-2011	06/28/2024 11:42	06/28/2024 11:52	DLP
pH (Lab)	3.14	H3	Std. Units	0.10	0.10	SW846-9045	06/27/2024 09:48	06/27/2024 09:48	DLP

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Sulfate	1890	D, M2	mg/L	20.0	20.0	EPA 300.0 REV 2.1	06/30/2024 18:38	06/30/2024 18:38	JBP1



ANALYTICAL RESULTS

Lab Sample ID: **4065398-03**
Description: **AML Quarterly 309C**

Sample Collection Date Time: 06/26/2024 13:46

Sample Received Date Time: 06/27/2024 09:30

Metals by EPA 200 Series Methods Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Aluminum	14.4	D1	mg/L	0.50	0.40	EPA 200.7 REV 4.4	07/02/2024 09:31	07/03/2024 17:13	AKB
Iron	123	D1	mg/L	10.0	2.50	EPA 200.7 REV 4.4	07/02/2024 09:31	07/05/2024 14:25	AKB
Manganese	16.3	D1	mg/L	0.400	0.200	EPA 200.7 REV 4.4	07/02/2024 09:31	07/03/2024 17:16	AKB

Conventional Chemistry Analyses Farmersburg

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Acidity	378		mg/L	5	2	2310 B-1997	06/27/2024 14:51	06/27/2024 15:16	DLP
Total Alkalinity	ND	U	mg/L	4		2320 B-2011	06/28/2024 11:42	06/28/2024 11:52	DLP
pH (Lab)	3.49	H3	Std. Units	0.10	0.10	SW846-9045	06/27/2024 09:48	06/27/2024 09:48	DLP

Ion Chromatography Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Sulfate	1780	D	mg/L	20.0	20.0	EPA 300.0 REV 2.1	06/30/2024 19:05	06/30/2024 19:05	JBP1



Notes for work order 4065398

- 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

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.
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
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Batch BDG0149 - EPA 200.2

Blank (BDG0149-BLK1)

Prepared: 7/2/2024 9:31, Analyzed: 7/2/2024 17:02

Aluminum	ND	0.05	mg/L							U
Iron	ND	0.100	mg/L							U
Manganese	ND	0.004	mg/L							U

LCS (BDG0149-BS1)

Prepared: 7/2/2024 9:31, Analyzed: 7/2/2024 17:05

Aluminum	0.07	0.05	mg/L	0.0625		109	85-115			
Iron	6.30	0.100	mg/L	6.25		101	85-115			
Manganese	0.065	0.004	mg/L	0.0625		104	85-115			

Matrix Spike (BDG0149-MS1)

Source: 4065332-01

Prepared: 7/2/2024 9:31, Analyzed: 7/2/2024 19:17

Aluminum	0.16	0.05	mg/L	0.0625	0.08	138	80-120			M1
Iron	6.45	0.100	mg/L	6.25	ND	103	80-120			
Manganese	0.087	0.004	mg/L	0.0625	0.011	122	80-120			M1

Matrix Spike (BDG0149-MS2)

Source: 4065404-02

Prepared: 7/2/2024 9:31, Analyzed: 7/2/2024 19:24

Aluminum	ND	0.50	mg/L	0.0625	ND		80-120			D2, M2, U
Iron	6.84	1.00	mg/L	6.25	0.526	101	80-120			D2
Manganese	0.096	0.040	mg/L	0.0625	0.032	102	80-120			D2

Matrix Spike Dup (BDG0149-MSD1)

Source: 4065332-01

Prepared: 7/2/2024 9:31, Analyzed: 7/2/2024 19:21

Aluminum	0.15	0.05	mg/L	0.0625	0.08	113	80-120	10.1	20	
Iron	6.35	0.100	mg/L	6.25	ND	102	80-120	1.61	20	
Manganese	0.073	0.004	mg/L	0.0625	0.011	98.8	80-120	18.3	20	

Matrix Spike Dup (BDG0149-MSD2)

Source: 4065404-02

Prepared: 7/2/2024 9:31, Analyzed: 7/2/2024 19:27

Aluminum	ND	0.50	mg/L	0.0625	ND		80-120		20	D2, M2, U
Iron	7.00	1.00	mg/L	6.25	0.526	104	80-120	2.30	20	D2
Manganese	0.111	0.040	mg/L	0.0625	0.032	125	80-120	14.2	20	D2, M1



Metals by EPA 200 Series Methods Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch BDG0151 - EPA 200.2

Blank (BDG0151-BLK1)

Prepared: 7/2/2024 9:31, Analyzed: 7/2/2024 15:55

Aluminum	ND	0.05	mg/L						U
Iron	ND	0.100	mg/L						U
Manganese	ND	0.004	mg/L						U

Blank (BDG0151-BLK2)

Prepared: 7/2/2024 9:31, Analyzed: 7/5/2024 8:28

Aluminum	ND	0.05	mg/L						U
Iron	ND	0.100	mg/L						U
Manganese	ND	0.004	mg/L						U

LCS (BDG0151-BS1)

Prepared: 7/2/2024 9:31, Analyzed: 7/2/2024 16:08

Aluminum	0.07	0.05	mg/L	0.0625		110	85-115		
Iron	6.49	0.100	mg/L	6.25		104	85-115		
Manganese	0.065	0.004	mg/L	0.0625		104	85-115		

LCS (BDG0151-BS2)

Prepared: 7/2/2024 9:31, Analyzed: 7/5/2024 8:28

Aluminum	ND	0.05	mg/L	0.0625			85-115		U
Iron	ND	0.100	mg/L	6.25			85-115		U
Manganese	ND	0.004	mg/L	0.0625			85-115		U

Matrix Spike (BDG0151-MS1)

Source: 4010687-02

Prepared: 7/2/2024 9:31, Analyzed: 7/2/2024 16:46

Aluminum	0.10	0.05	mg/L	0.0625	0.04	91.8	80-120		
Iron	6.47	0.100	mg/L	6.25	0.085	102	80-120		
Manganese	0.096	0.004	mg/L	0.0625	0.030	105	80-120		

Matrix Spike (BDG0151-MS2)

Source: 4071487-01

Prepared: 7/2/2024 9:31, Analyzed: 7/2/2024 16:52

Aluminum	9.01	0.50	mg/L	0.0625	9.36	NR	80-120		D2, M2
Iron	41.8	1.00	mg/L	6.25	37.5	68.7	80-120		D2, M2
Manganese	0.950	0.040	mg/L	0.0625	0.978	NR	80-120		D2, M2



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
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Batch BDG0151 - EPA 200.2

Matrix Spike (BDG0151-MS3)

Source: 4010687-02

Prepared: 7/2/2024 9:31, Analyzed: 7/5/2024 8:28

Aluminum	ND	0.05	mg/L	0.0625	0.04	NR	80-120			U
Iron	ND	0.100	mg/L	6.25	0.085	NR	80-120			U
Manganese	ND	0.004	mg/L	0.0625	0.030	NR	80-120			U

Matrix Spike (BDG0151-MS4)

Source: 4071487-01

Prepared: 7/2/2024 9:31, Analyzed: 7/5/2024 8:28

Aluminum	ND	0.05	mg/L	0.0625	9.36	NR	80-120			U
Iron	ND	0.100	mg/L	6.25	37.5	NR	80-120			U
Manganese	ND	0.004	mg/L	0.0625	0.978	NR	80-120			U

Matrix Spike Dup (BDG0151-MSD1)

Source: 4010687-02

Prepared: 7/2/2024 9:31, Analyzed: 7/2/2024 16:49

Aluminum	0.10	0.05	mg/L	0.0625	0.04	94.6	80-120	1.74	20	
Iron	6.51	0.100	mg/L	6.25	0.085	103	80-120	0.563	20	
Manganese	0.095	0.004	mg/L	0.0625	0.030	103	80-120	1.22	20	

Matrix Spike Dup (BDG0151-MSD2)

Source: 4071487-01

Prepared: 7/2/2024 9:31, Analyzed: 7/2/2024 16:55

Aluminum	8.16	0.50	mg/L	0.0625	9.36	NR	80-120	9.95	20	D2, M2
Iron	44.9	1.00	mg/L	6.25	37.5	119	80-120	7.30	20	D2
Manganese	0.859	0.040	mg/L	0.0625	0.978	NR	80-120	10.1	20	D2, M2

Matrix Spike Dup (BDG0151-MSD3)

Source: 4010687-02

Prepared: 7/2/2024 9:31, Analyzed: 7/5/2024 8:28

Aluminum	ND	0.05	mg/L	0.0625	0.04	NR	80-120		20	U
Iron	ND	0.100	mg/L	6.25	0.085	NR	80-120		20	U
Manganese	ND	0.004	mg/L	0.0625	0.030	NR	80-120		20	U

Matrix Spike Dup (BDG0151-MSD4)

Source: 4071487-01

Prepared: 7/2/2024 9:31, Analyzed: 7/5/2024 8:28

Aluminum	ND	0.05	mg/L	0.0625	9.36	NR	80-120		20	U
Iron	ND	0.100	mg/L	6.25	37.5	NR	80-120		20	U
Manganese	ND	0.004	mg/L	0.0625	0.978	NR	80-120		20	U



Conventional Chemistry Analyses Farmersburg - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch BDF2836 - Default Prep Wet Chem 5

LCS (BDF2836-BS1)

Prepared: 6/27/2024 9:48, Analyzed: 6/27/2024 9:48

pH (Lab)	7.01		Std. Units	7.00		100	98.5-101.5		
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Duplicate (BDF2836-DUP1)

Source: 4065396-02

Prepared: 6/27/2024 9:48, Analyzed: 6/27/2024 9:48

pH (Lab)	7.67	0.10	Std. Units		7.64			0.392	10	H3
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Batch BDF2898 - Default Prep Wet Chem 5

Blank (BDF2898-BLK1)

Prepared: 6/27/2024 14:51, Analyzed: 6/27/2024 15:01

Acidity	ND	5	mg/L							U
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LCS (BDF2898-BS1)

Prepared: 6/27/2024 14:51, Analyzed: 6/27/2024 15:03

Acidity	1220	5	mg/L	1240		98.4	80-120			
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Duplicate (BDF2898-DUP1)

Source: 4065398-01

Prepared: 6/27/2024 14:51, Analyzed: 6/27/2024 15:09

Acidity	13	5	mg/L		14			5.28	25	
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Batch BDF3048 - Default Prep Wet Chem 5

Blank (BDF3048-BLK1)

Prepared: 6/28/2024 11:42, Analyzed: 6/28/2024 11:52

Total Alkalinity	ND	4	mg/L							U
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LCS (BDF3048-BS1)

Prepared: 6/28/2024 11:42, Analyzed: 6/28/2024 11:59

Total Alkalinity	253	4	mg/L	250		101	80-120			
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Duplicate (BDF3048-DUP1)

Source: 4063896-04

Prepared: 6/28/2024 11:42, Analyzed: 6/28/2024 13:22

Total Alkalinity	957	4	mg/L		950			0.734	10	
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Conventional Chemistry Analyses Farmersburg - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BDF3048 - Default Prep Wet Chem 5

Matrix Spike (BDF3048-MS1) Source: 4063896-04

Prepared: 6/28/2024 11:42, Analyzed: 6/28/2024 13:13

Total Alkalinity	1110	4	mg/L	125	950	128	80-120			M1
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Ion Chromatography Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BDF3125 - Default Prep IC

Blank (BDF3125-BLK1)

Prepared: 7/1/2024 1:28, Analyzed: 7/1/2024 1:28

Sulfate	ND	1.0	mg/L							U
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LCS (BDF3125-BS1)

Prepared: 7/1/2024 1:01, Analyzed: 7/1/2024 1:01

Sulfate	23.4		mg/L	25.0		93.8	90-110			
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Matrix Spike (BDF3125-MS1) Source: 4065398-02

Prepared: 6/30/2024 23:11, Analyzed: 6/30/2024 23:11

Sulfate	2090		mg/L	500	1710	76.2	80-120			D, M2
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Matrix Spike (BDF3125-MS2) Source: 4065452-01

Prepared: 7/1/2024 0:06, Analyzed: 7/1/2024 0:06

Sulfate	60.2		mg/L	25.0	36.3	95.6	80-120			
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Matrix Spike Dup (BDF3125-MSD1) Source: 4065398-02

Prepared: 6/30/2024 23:39, Analyzed: 6/30/2024 23:39

Sulfate	2190		mg/L	500	1710	96.5	80-120	4.75	20	D
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Matrix Spike Dup (BDF3125-MSD2) Source: 4065452-01

Prepared: 7/1/2024 0:33, Analyzed: 7/1/2024 0:33

Sulfate	63.8		mg/L	25.0	36.3	110	80-120	5.75	20	
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Certified Analyses included in this Report

Analyte	Certifications
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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
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
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

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
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Sample Acceptance Checklist for Work Order 4065398

Shipped By: Client

Temperature: 6.00° 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 Workorder/Log Label Here or List Pace Workorder Number or MTJL Log- In Number Here

4065398

ALL SHADED AREAS are for LAB USE ONLY

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

Company: IDNR - Division of Reclamation
Address: 14615 West State Road 48, Jasonville, IN 47438
Report To: Michael Archer
Copy To:

Billing Information:
IDNR - Division of Reclamation
Attn: Kim Tibbels
Address: 14615 West State Road 48, Jasonville, IN 47438
Email To: marcher1@dnr.in.gov
Site Collection Info/Address:

State: / **County/City:** / **Time Zone Collected:** / PT MT CT ET
Site/Facility ID # / **Compliance Monitoring?** [] Yes [X] No
Purchase Order # / **DW PWS ID #** / **DW Location Code #**
Quote # / **Turnaround Date Required:**
Collected by (signature): *Donna Williams*
Sample Disposal: [X] Dispose as appropriate [] Return [] Archive [] Hold
Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID 309
Matrix* OT
Compl Grab G
Date 06-26-2024
Time 12:32 PM
Start 06-26-2024
Time 1:33 PM
End 06-26-2024
Time 1:46 PM
Res CI 3
of Chgs 3

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

Customer Remark Special Conditions/ Possible Hazards:

Type of Ice Used: Wet [] Blue [] Dry [] None []
Packing Material Used:

Radchem sample(s) screened: (4-500 cpm): [] Y [] N [] NA
Received by Company: *Donna Williams* Date/Time: 6/24/24 9:13
Relinquished by Company: *Donna Williams* Date/Time: 6/24/24 9:13
Relinquished by Company: *Donna Williams* Date/Time: 6/24/24 9:13

LAB Sample Temperature Info:
Temp Blank received: Y N NA
Therm ID #:
Cooler Temp Upon Receipt: oC
Cooler Therm Corr. Factor: oC
Cooler Temp Corrected: oC
Comments:
Trip Blank Received: Y N N/A
HCL MeOH TSP Other
NonConformance(s): Yes / No