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January 27, 2021

Mr. Lon Petts
Hoosier Energy REC, Inc.
P.O. Box 908
Bloomington, Indiana 47402

Re: **2020 CCR Annual Groundwater Monitoring and Corrective Action
Report**

Merom Generating Station – Area 3 Landfill
CCR Monitoring System
5500 West Old Highway 54
Sullivan County, Indiana
ATC Project No. 170LF00929

Dear Mr. Petts:

ATC Group Services LLC (ATC) has prepared this 2020 CCR Annual Groundwater Monitoring and Corrective Action Report for the bedrock aquifer groundwater monitoring system at the Hoosier Energy REC, Inc. (Hoosier Energy) Merom Generating Station located outside Sullivan, Sullivan County, Indiana. This report has been prepared to comply with reporting requirements described in the United States Environmental Protection Agency's (USEPA) Coal Combustion Residuals (CCR) Rule § 257.90(e).

We appreciate the opportunity to assist with Hoosier Energy's CCR Rule groundwater monitoring program at Merom Generating Station's Area 3 Landfill. Please contact either of the undersigned at 317.849.4990 if you have any questions regarding this report.

Sincerely,



Slawa Bruder
Senior Project Manager



Robert Duncan, L.P.G.
Senior Project Geologist

Executive Summary

This executive summary is written in compliance with 40 C.F.R. § 257.90(e)(6) for the Merom Generating Station – Area 3 Landfill (Site). This report covers the annual reporting period from January 1, 2020 through December 31, 2020. The site's groundwater program was under detection monitoring during 2020 in compliance with 40 C.F.R. § 257.90. In accordance with § 257.94(c), detection monitoring of Appendix III parameters was completed on a semi-annual basis in May and November 2020 to fulfil the semi-annual monitoring requirement. No changes to the site's groundwater monitoring well network were made in 2020. No statistically significant increases (SSIs) were reported at the network for the 2020 groundwater monitoring period. No assessment or an assessment of corrective measures have been initiated at the site. Evaluation of the data associated with the November 2020 sampling event for SSIs had not been completed by December 31, 2020.

2020 Annual Summary Table	
Monitoring Well	Appendix III Constituent(s) Over Background Levels
None	None

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1 Background

This annual report documents the status of the groundwater monitoring and corrective action program for the Merom Area 3 Landfill and summarizes information required by § 257.90(e)(1) through § 257.90(e)(5). The requirements are associated with the United States Environmental Protection Agency's (USEPA) Coal Combustion Residuals (CCR) Rule.

Hoosier Energy operates the Merom Generating Station, located approximately six miles west of Sullivan, Indiana. It is located at 5500 West Old Highway 54, Sullivan, Indiana. A Vicinity Map is provided as Figure 1. A map showing the location of the CCR management unit and associated upgradient and downgradient monitoring wells is provided as Figure 2.

Federal CCR Rule § 257.90(e) specifies the following:

For existing CCR landfills and existing CCR surface impoundments, no later than January 31, 2018, and annually thereafter, the owner or operator must prepare an annual groundwater monitoring and corrective action report. For new CCR landfills, new CCR surface impoundments, and all lateral expansions of CCR units, the owner or operator must prepare the initial annual groundwater monitoring and corrective action report no later than January 31 of the year following the calendar year a groundwater monitoring system has been established for such CCR unit as required by this subpart, and annually thereafter. For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by § 257.105(h)(1).

At a minimum, the annual groundwater monitoring and corrective action report must contain the information described above and the information required by § 257.90(e), (1) through (5), to the extent available.

This report covers the period of January 1, 2020, through December 31, 2020. In addition, this report contains information that pertains to groundwater results associated with the November 2020 sampling event. Evaluation of the data associated with the November 2020 sampling event for SSIs had not been completed by December 31, 2020.

1.1 Status of the Groundwater Monitoring and Corrective Action Program

In compliance with the requirements of § 257.90(b) and § 257.94, Hoosier Energy initiated the detection monitoring program for the CCR unit. Results of Appendix III detection monitoring constituents were statistically evaluated in January 2018. SSIs were not identified in the background dataset. In 2020 the facility continued with the detection monitoring program.

1.2 Summary of Key Actions Completed

The following key actions have been completed to comply with the CCR Rule:

- Appendix III groundwater monitoring data was evaluated for statistically significant increases for the November 2019 and May 2020 semi-annual events.
- Detection monitoring was completed on a semi-annual basis in May and November 2020 in accordance with § 257.94(c).

1.3 Completion of Required Reports

The following required reports were completed:

- *2019 CCR Annual Groundwater Monitoring and Corrective Action Report, Merom Generating Station- Area 3 Landfill*, ATC Group Services, January 31, 2020.
- *May 2020 CCR Monitoring Well Network Groundwater Quality Data Area 3*, ATC Group Services, July 21, 2020.

1.4 Description of Any Problems Encountered

No problems were encountered during the annual reporting period.

1.5 Actions to Resolve Problems Encountered

No actions were needed.

1.6 Projected Key Activities for the Upcoming Year

Projected key activities for the upcoming year include the following:

- Completion of statistical analysis of November 2020 semi-annual sampling event.
- Semi-annual groundwater sampling events to be conducted in 2021.
- Completion of statistical analysis of first 2021 semi-annual sampling event groundwater results.

2 Identification of Monitoring Wells Installed or Abandoned - § 257.90(e)(2)

No new monitoring wells were installed, nor were any wells decommissioned during the preceding year.

Table 1 includes a list of wells used in the CCR monitoring program, and Figure 2 displays the locations of the CCR monitoring wells.

3 Groundwater Monitoring Data - § 257.90(e)(3)

Table 1 provides a summary of the number of samples collected at each well, sampling dates, and designation of whether samples were required by the detection or assessment monitoring program. Groundwater analytical results for samples collected during the 2020 sampling events are summarized in Tables 2 through 9. Continuation of the detection monitoring program on a semi-annual basis was conducted in May 2020 and November 2020. The 2020 laboratory analytical results are located in Appendix A.

4 Monitoring Program Transition Discussion - §257.90(e)(4)

Consistent with § 257.90(e), the 2020 annual report documents activities conducted during the prior calendar year at the CCR management units subject to the Rule.

Pursuant to 257.93(h), the statistical analysis of the initial minimum eight rounds of Appendix III groundwater sampling data was completed in January 2018. The detection groundwater monitoring program continued in 2020. Historically, a statistically significant increase (SSI) was reported for total boron at monitoring well SWW-46, however, the demonstration of statistical exceedances, including boron, was prepared in November 2018 and the accuracy of this demonstration was confirmed by a qualified professional engineer, as required by 40 C.F.R. § 257.94(e)(2), in the *Certification of Accuracy of Demonstration – Statistically Significant Increase Over Background Levels Not Caused by CCR Unit* dated September 24, 2019. No SSIs were reported for the first semi-annual groundwater event in 2020.

5 Other Information Required by §§ 257.90 through 257.98 - § 257.90(e)(5)

The following sections contain information required by §§ 257.90 through 257.98.

5.1 Detection Monitoring Program — § 257.94

The following sections provide information required for inclusion in the annual groundwater monitoring and corrective action report covering this annual reporting period.

5.1.1 Alternative Monitoring Frequency — § 257.94(d)

An alternative monitoring frequency was not developed for this CCR unit. No information is provided, as this requirement is not applicable for this annual reporting period.

5.1.2 Identification of Appendix III Constituents Detected at SSI Over Background — § 257.94(e)

Appendix III constituents were not detected over the established background concentrations during this reporting period.

5.1.3 Transition from Detection to Assessment Monitoring — § 257.94(e)(1)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.1.4 Alternative Source Demonstration — § 257.94(e)(2)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.2 Assessment Monitoring Program — § 257.95

The following sections provide information required for inclusion in the annual groundwater monitoring and corrective action report covering this annual reporting period.

5.2.1 Results of Sampling Required by - § 257.95(b)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.2.2 Alternative Monitoring Frequency — § 257.95(c)

An alternative monitoring frequency was not developed for this CCR unit. No information is provided, as this requirement is not applicable for this annual reporting period.

5.2.3 Semi Annual Monitoring Results — §257.95(d)(1)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.2.4 Groundwater Protection Standards — § 257.95(d)(2)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.2.5 Recorded Concentrations Required by § 257.95(d)(1) — § 257.95(d)(3)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.2.6 Notification of Resumption of Detection Monitoring — § 257.95(e)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.2.7 Identification of Appendix IV Constituents Exceeding Groundwater Protection Standards and Notifications — § 257.95(g)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.2.8 Characterize Nature and Extent of Release — § 257.95(g)(1)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.2.9 Notification of Adjacent Owners or Residents — § 257.95(g)(2)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.2.10 Initiate an Assessment of Corrective Measures — § 257.95(g)(3)(i)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.2.11 Alternative Source Demonstration — § 257.95(g)(3)(ii)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.3 Assessment of Corrective Measures — § 257.96

No information is provided, as this requirement is not applicable for this annual reporting period.

5.3.1 Demonstration for 60 Day Extension — § 257.96(a)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.4 Selection of Remedy — § 257.97

No information is provided, as this requirement is not applicable for this annual reporting period.

5.4.1 Semi-annual Progress Reports — § 257.97(a)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.4.2 Implementation Schedule — § 257.97(d)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.4.3 Summary of Selected Remedy Final Report — § 257.97(e)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.5 Corrective Action Program — § 257.98

No information is provided, as this requirement is not applicable for this annual reporting period.

5.5.1 Completion of Remedy — § 257.98(e)

No information is provided, as this requirement is not applicable for this annual reporting period.

TABLES

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Table 3:	Analytical Data Summary for SWW-41
Table 4:	Analytical Data Summary for SWW-42
Table 5:	Analytical Data Summary for SWW-43
Table 6:	Analytical Data Summary for SWW-44
Table 7:	Analytical Data Summary for SWW-45
Table 8:	Analytical Data Summary for SWW-46
Table 9:	Analytical Data Summary for SWW-47

Table 1
Well Sampling Summary
Area 3 Landfill
Hoosier Energy, REC, Inc.
Merom Generating Station
Sullivan, Indiana
ATC Project No. 170LF00929

Identification	Date Installed	Upgradient or Downgradient	Number of Samples	Sample Date	Detection or Assessment Monitoring
SWW-40	12/11/2015	Upgradient	2	5/22/2020	Detection
				11/17/2020	
SWW-41	12/19/2015	Downgradient	2	5/20/2020	Detection
				11/19/2020	
SWW-42	12/16/2015	Downgradient	2	5/19/2020	Detection
				11/19/2020	
SWW-43	1/5/2016	Downgradient	2	5/19/2020	Detection
				11/19/2020	
SWW-44	1/7/2016	Downgradient	2	5/19/2020	Detection
				11/17/2020	
SWW-45	1/14/2016	Downgradient	2	5/20/2020	Detection
				11/17/2020	
SWW-46	1/21/2016	Upgradient	2	5/21/2020	Detection
				11/19/2020	
SWW-47	1/19/2016	Upgradient	2	5/21/2020	Detection
				11/19/2020	

Table 2**Analytical Data Summary for SWW-40**

Constituents	Units	5/22/2020	11/17/2020
Boron	ug/L	1040	985
Calcium	ug/L	2960	2840
Chloride	mg/L	224	232
Fluoride	mg/L	4.7	4.9
pH	SU	8.48	8.29
Sulfate	mg/L	12.3	11.1
Total dissolved solids	mg/L	1220	1320

* - The displayed value is the arithmetic mean of multiple database matches.

Table 3**Analytical Data Summary for SWW-41**

Constituents	Units	5/20/2020	11/19/2020
Boron	ug/L	1150	1090
Calcium	ug/L	2580	2320
Chloride	mg/L	256	265
Fluoride	mg/L	5.1	5.0
pH	SU	8.53	8.32
Sulfate	mg/L	3.2	3.7
Total dissolved solids	mg/L	1470	1470

* - The displayed value is the arithmetic mean of multiple database matches.

Table 4**Analytical Data Summary for SWW-42**

Constituents	Units	5/19/2020	11/19/2020
Boron	ug/L	1270	1230
Calcium	ug/L	3100	2220
Chloride	mg/L	291	304
Fluoride	mg/L	4.0	4.2
pH	SU	8.46	8.27
Sulfate	mg/L	.27	.29
Total dissolved solids	mg/L	1370	1390

* - The displayed value is the arithmetic mean of multiple database matches.

Table 5**Analytical Data Summary for SWW-43**

Constituents	Units	5/19/2020	11/19/2020
Boron	ug/L	1210	1180
Calcium	ug/L	3780	3520
Chloride	mg/L	331	348
Fluoride	mg/L	4.6	4.9
pH	SU	8.46	8.59
Sulfate	mg/L	.88	.73
Total dissolved solids	mg/L	1390	1360

* - The displayed value is the arithmetic mean of multiple database matches.

Table 6**Analytical Data Summary for SWW-44**

Constituents	Units	5/19/2020	11/17/2020
Boron	ug/L	1110	1090
Calcium	ug/L	2580	2450
Chloride	mg/L	365	360
Fluoride	mg/L	5.2	4.8
pH	SU	8.44	8.65
Sulfate	mg/L	4.3	8.7
Total dissolved solids	mg/L	1480	1570

* - The displayed value is the arithmetic mean of multiple database matches.

Table 7**Analytical Data Summary for SWW-45**

Constituents	Units	5/20/2020	11/17/2020
Boron	ug/L	1120	1080
Calcium	ug/L	3030	2800
Chloride	mg/L	505	506
Fluoride	mg/L	4.9	5.0
pH	SU	8.46	8.66
Sulfate	mg/L	.26	.26
Total dissolved solids	mg/L	1720	1700

* - The displayed value is the arithmetic mean of multiple database matches.

Table 8**Analytical Data Summary for SWW-46**

Constituents	Units	5/21/2020	11/19/2020
Boron	ug/L	1110	1090
Calcium	ug/L	4450	3410
Chloride	mg/L	320	322
Fluoride	mg/L	4.7	4.8
pH	SU	8.49	8.49
Sulfate	mg/L	19.9	22.6
Total dissolved solids	mg/L	1540	1560

* - The displayed value is the arithmetic mean of multiple database matches.

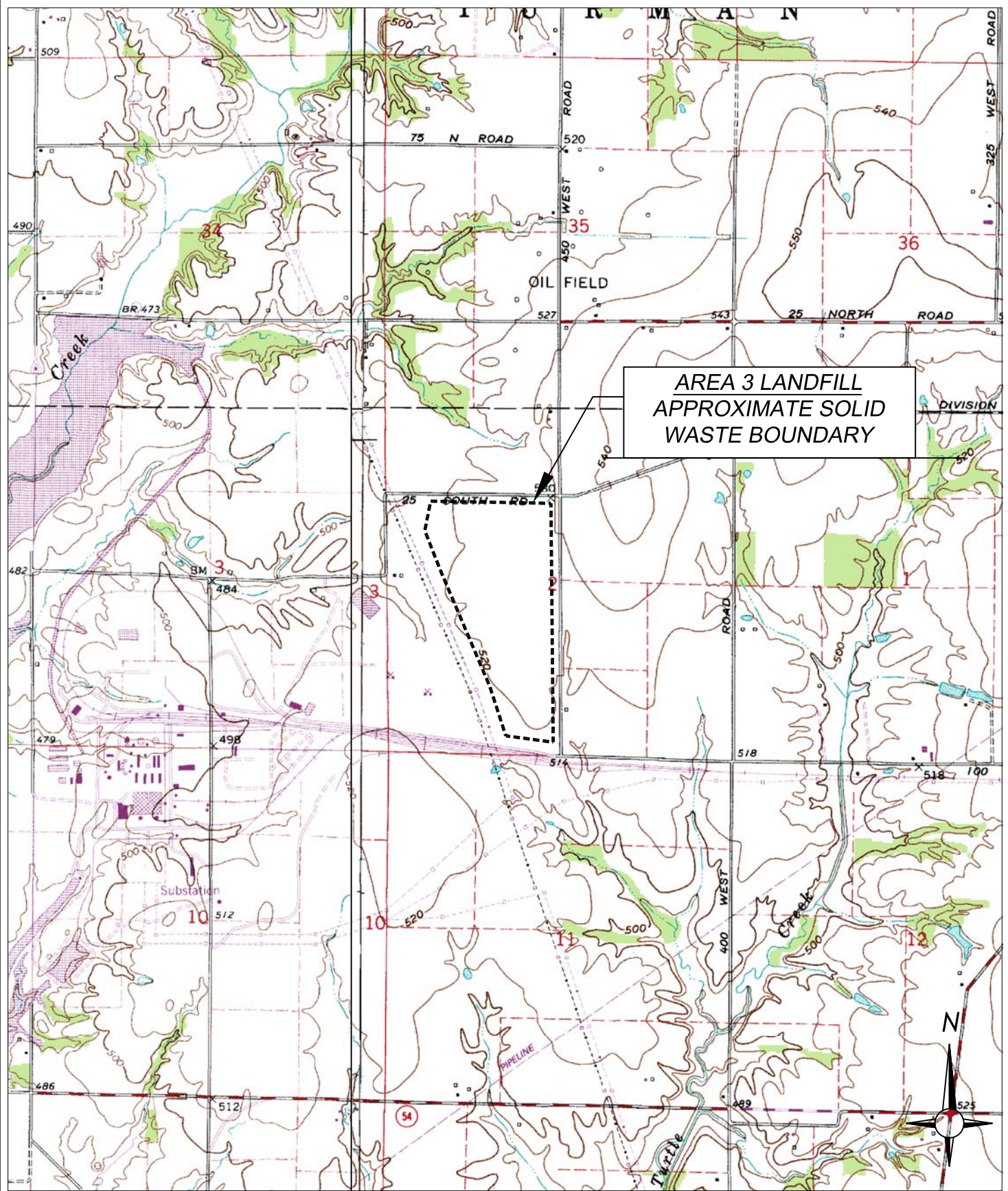
Table 9**Analytical Data Summary for SWW-47**

Constituents	Units	5/21/2020	11/19/2020
Boron	ug/L	878	847
Calcium	ug/L	10200	14300
Chloride	mg/L	171	168
Fluoride	mg/L	2.7	2.7
pH	SU	8.21	8.42
Sulfate	mg/L	4.4	6.2
Total dissolved solids	mg/L	1090	1110

* - The displayed value is the arithmetic mean of multiple database matches.

FIGURES

Figure 1: Vicinity Map
Figure 2: Site Plan



VICINITY MAP

HOOSIER ENERGY
MEROM GENERATING STATION
AREA 3 LANDFILL
SULLIVAN COUNTY, INDIANA

Project Number:
17OLF00147

Drawing File:
SEE LOWER LEFT

Date:
8/17

Scale:
1" = 2000'

ATC

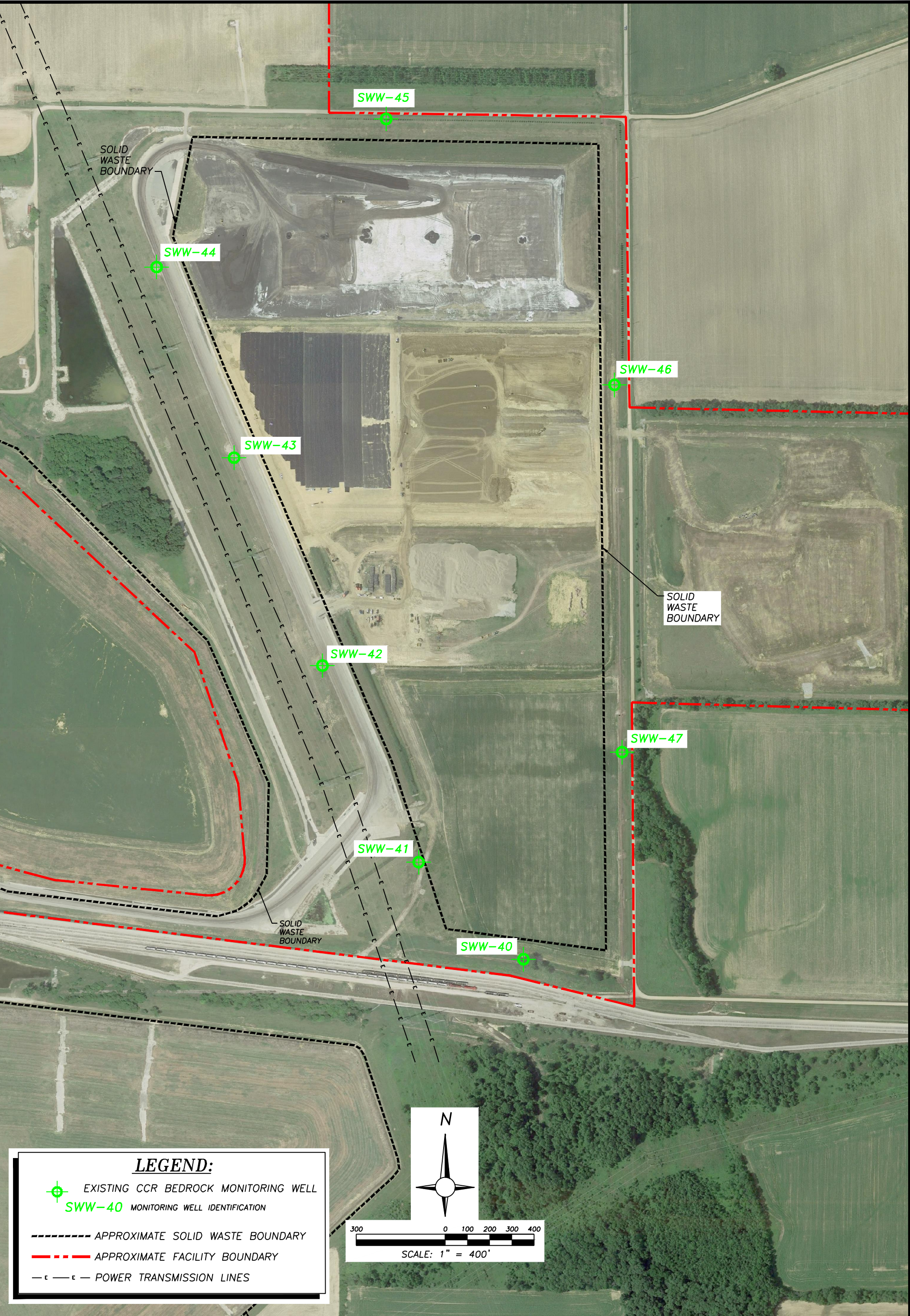
Drn. By:
PL

Ckd. By:
MB

App'd By:

Figure:

1



LEGEND:

EXISTING CCR BEDROCK MONITORING WELL
SWW-40 MONITORING WELL IDENTIFICATION

APPROXIMATE SOLID WASTE BOUNDARY

APPROXIMATE FACILITY BOUNDARY

POWER TRANSMISSION LINES

Figure: 2	Scale: AS SHOWN	Date: 1/19	SITE PLAN HOOSIER ENERGY MEROM GENERATING STATION AREA 3 LANDFILL SULLIVAN COUNTY, INDIANA	Project Number: 17OLF00929	Dwn. By: BH
				Drawing File: SEE ABOVE	Ckd. By: MB
					App'd By:
					Ckd. Date:

APPENDIX A

Laboratory Certificates of Analysis

June 08, 2020

Ms. Slawa Bruder
ATC Group Services
7988 Centerpoint Drive
Indianapolis, IN 46268

RE: Project: Merom Area 3 CCR III
Pace Project No.: 50258015

Dear Ms. Bruder:

Enclosed are the analytical results for sample(s) received by the laboratory on May 22, 2020. The results relate only 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 - Indianapolis

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

West Virginia Certification #: 330

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50258015001	SWW-40	Water	05/22/20 11:40	05/22/20 15:40
50258015002	SWW-41	Water	05/20/20 12:00	05/22/20 15:40
50258015003	SWW-42	Water	05/19/20 11:35	05/22/20 15:40
50258015004	SWW-43	Water	05/19/20 13:35	05/22/20 15:40
50258015005	SWW-44	Water	05/19/20 14:50	05/22/20 15:40
50258015006	SWW-45	Water	05/20/20 13:05	05/22/20 15:40
50258015007	SWW-46	Water	05/21/20 12:10	05/22/20 15:40
50258015008	SWW-47	Water	05/21/20 14:00	05/22/20 15:40
50258015009	DUP-1	Water	05/21/20 08:00	05/22/20 15:40
50258015010	FB-1	Water	05/22/20 12:10	05/22/20 15:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50258015001	SWW-40	EPA 9056	RSF	3	PASI-I
		EPA 6010	JPK	2	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50258015002	SWW-41	EPA 9056	RSF	3	PASI-I
		EPA 6010	JPK	2	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50258015003	SWW-42	EPA 9056	RSF	3	PASI-I
		EPA 6010	JPK	2	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50258015004	SWW-43	EPA 9056	RSF	3	PASI-I
		EPA 6010	JPK	2	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50258015005	SWW-44	EPA 9056	RSF	3	PASI-I
		EPA 6010	JPK	2	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50258015006	SWW-45	EPA 9056	RSF	3	PASI-I
		EPA 6010	JPK	2	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50258015007	SWW-46	EPA 9056	RSF	3	PASI-I
		EPA 6010	JPK	2	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50258015008	SWW-47	EPA 9056	RSF	3	PASI-I
		EPA 6010	JPK	2	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50258015009	DUP-1	EPA 9056	RSF	3	PASI-I
		EPA 6010	JPK	2	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50258015010	FB-1	EPA 9056	RSF	3	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	JPK	2	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50258015001	SWW-40					
EPA 9056	Chloride	224	mg/L	25.0	06/04/20 15:02	
EPA 9056	Fluoride	4.7	mg/L	0.10	06/04/20 14:23	
EPA 9056	Sulfate	12.3	mg/L	0.25	06/04/20 14:23	
EPA 6010	Boron	1040	ug/L	100	06/06/20 02:39	
EPA 6010	Calcium	2960	ug/L	1000	06/06/20 02:39	
SM 2540C	Total Dissolved Solids	1220	mg/L	40.0	05/29/20 11:30	
SM 4500-H+B	pH at 25 Degrees C	8.7	Std. Units	0.10	05/28/20 10:49	H3
50258015002	SWW-41					
EPA 9056	Chloride	256	mg/L	25.0	06/04/20 16:00	
EPA 9056	Fluoride	5.1	mg/L	1.0	06/04/20 15:40	
EPA 9056	Sulfate	3.2	mg/L	0.25	06/04/20 15:21	
EPA 6010	Boron	1150	ug/L	100	06/06/20 02:42	
EPA 6010	Calcium	2580	ug/L	1000	06/06/20 02:42	
SM 2540C	Total Dissolved Solids	1470	mg/L	20.0	05/27/20 15:16	
SM 4500-H+B	pH at 25 Degrees C	8.7	Std. Units	0.10	05/28/20 10:29	H3
50258015003	SWW-42					
EPA 9056	Chloride	291	mg/L	25.0	06/04/20 16:58	
EPA 9056	Fluoride	4.0	mg/L	0.10	06/04/20 16:19	
EPA 9056	Sulfate	0.27	mg/L	0.25	06/04/20 16:19	
EPA 6010	Boron	1270	ug/L	100	06/06/20 02:44	
EPA 6010	Calcium	3100	ug/L	1000	06/06/20 02:44	
SM 2540C	Total Dissolved Solids	1370	mg/L	20.0	05/26/20 11:02	
SM 4500-H+B	pH at 25 Degrees C	8.7	Std. Units	0.10	05/28/20 10:23	H3
50258015004	SWW-43					
EPA 9056	Chloride	331	mg/L	25.0	06/04/20 18:34	
EPA 9056	Fluoride	4.6	mg/L	0.10	06/04/20 17:56	
EPA 9056	Sulfate	0.88	mg/L	0.25	06/04/20 17:56	
EPA 6010	Boron	1210	ug/L	100	06/06/20 02:46	
EPA 6010	Calcium	3780	ug/L	1000	06/06/20 02:46	
SM 2540C	Total Dissolved Solids	1390	mg/L	20.0	05/26/20 11:02	
SM 4500-H+B	pH at 25 Degrees C	8.7	Std. Units	0.10	05/28/20 10:25	H3
50258015005	SWW-44					
EPA 9056	Chloride	365	mg/L	25.0	06/04/20 19:32	
EPA 9056	Fluoride	5.2	mg/L	1.0	06/04/20 19:13	
EPA 9056	Sulfate	4.3	mg/L	0.25	06/04/20 18:54	
EPA 6010	Boron	1110	ug/L	100	06/06/20 02:48	
EPA 6010	Calcium	2580	ug/L	1000	06/06/20 02:48	
SM 2540C	Total Dissolved Solids	1480	mg/L	40.0	05/26/20 11:02	
SM 4500-H+B	pH at 25 Degrees C	8.7	Std. Units	0.10	05/28/20 10:27	H3
50258015006	SWW-45					
EPA 9056	Chloride	505	mg/L	25.0	06/04/20 20:30	
EPA 9056	Fluoride	4.9	mg/L	0.10	06/04/20 19:52	
EPA 9056	Sulfate	0.26	mg/L	0.25	06/04/20 19:52	
EPA 6010	Boron	1120	ug/L	100	06/06/20 02:50	

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SUMMARY OF DETECTION

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50258015006	SWW-45					
EPA 6010	Calcium	3030	ug/L	1000	06/06/20 02:50	
SM 2540C	Total Dissolved Solids	1720	mg/L	40.0	05/27/20 15:17	
SM 4500-H+B	pH at 25 Degrees C	8.7	Std. Units	0.10	05/28/20 10:31	H3
50258015007	SWW-46					
EPA 9056	Chloride	320	mg/L	25.0	06/04/20 23:24	
EPA 9056	Fluoride	4.7	mg/L	0.10	06/04/20 21:28	
EPA 9056	Sulfate	19.9	mg/L	0.25	06/04/20 21:28	
EPA 6010	Boron	1110	ug/L	100	06/06/20 02:52	
EPA 6010	Calcium	4450	ug/L	1000	06/06/20 02:52	
SM 2540C	Total Dissolved Solids	1540	mg/L	40.0	05/28/20 15:47	
SM 4500-H+B	pH at 25 Degrees C	8.7	Std. Units	0.10	05/28/20 10:36	H3
50258015008	SWW-47					
EPA 9056	Chloride	171	mg/L	25.0	06/05/20 01:39	
EPA 9056	Fluoride	2.7	mg/L	0.10	06/05/20 01:01	
EPA 9056	Sulfate	4.4	mg/L	0.25	06/05/20 01:01	
EPA 6010	Boron	878	ug/L	100	06/06/20 03:07	
EPA 6010	Calcium	10200	ug/L	1000	06/06/20 03:07	
SM 2540C	Total Dissolved Solids	1090	mg/L	20.0	05/28/20 15:48	
SM 4500-H+B	pH at 25 Degrees C	8.5	Std. Units	0.10	05/28/20 10:40	H3
50258015009	DUP-1					
EPA 9056	Chloride	171	mg/L	25.0	06/05/20 02:37	
EPA 9056	Fluoride	2.7	mg/L	0.10	06/05/20 01:58	
EPA 9056	Sulfate	4.4	mg/L	0.25	06/05/20 01:58	
EPA 6010	Boron	887	ug/L	100	06/06/20 03:09	
EPA 6010	Calcium	9590	ug/L	1000	06/06/20 03:09	
SM 2540C	Total Dissolved Solids	1070	mg/L	20.0	05/28/20 15:48	
SM 4500-H+B	pH at 25 Degrees C	8.5	Std. Units	0.10	05/28/20 10:34	H3
50258015010	FB-1					
SM 4500-H+B	pH at 25 Degrees C	5.6	Std. Units	0.10	05/28/20 10:53	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

Sample: SWW-40		Lab ID: 50258015001		Collected: 05/22/20 11:40		Received: 05/22/20 15:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions	Analytical Method: EPA 9056								
	Pace Analytical Services - Indianapolis								
	Chloride	224	mg/L	25.0	100		06/04/20 15:02	16887-00-6	
	Fluoride	4.7	mg/L	0.10	1		06/04/20 14:23	16984-48-8	
Sulfate	12.3	mg/L	0.25	1		06/04/20 14:23	14808-79-8		
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Pace Analytical Services - Indianapolis								
	Boron	1040	ug/L	100	1	06/02/20 06:00	06/06/20 02:39	7440-42-8	
Calcium	2960	ug/L	1000	1	06/02/20 06:00	06/06/20 02:39	7440-70-2		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
	Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1220	mg/L	40.0	1		05/29/20 11:30			
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
	Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	8.7	Std. Units	0.10	1		05/28/20 10:49		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

Sample: SWW-41		Lab ID: 50258015002		Collected: 05/20/20 12:00		Received: 05/22/20 15:40		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056							
		Pace Analytical Services - Indianapolis							
Chloride	256	mg/L	25.0	100			06/04/20 16:00	16887-00-6	
Fluoride	5.1	mg/L	1.0	10			06/04/20 15:40	16984-48-8	
Sulfate	3.2	mg/L	0.25	1			06/04/20 15:21	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
		Pace Analytical Services - Indianapolis							
Boron	1150	ug/L	100	1	06/02/20 06:00	06/06/20 02:42		7440-42-8	
Calcium	2580	ug/L	1000	1	06/02/20 06:00	06/06/20 02:42		7440-70-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
		Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1470	mg/L	20.0	1			05/27/20 15:16		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
		Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.7	Std. Units	0.10	1			05/28/20 10:29		H3

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

Sample: SWW-42		Lab ID: 50258015003		Collected: 05/19/20 11:35		Received: 05/22/20 15:40		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056							
		Pace Analytical Services - Indianapolis							
Chloride	291	mg/L	25.0	100			06/04/20 16:58	16887-00-6	
Fluoride	4.0	mg/L	0.10	1			06/04/20 16:19	16984-48-8	
Sulfate	0.27	mg/L	0.25	1			06/04/20 16:19	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
		Pace Analytical Services - Indianapolis							
Boron	1270	ug/L	100	1	06/02/20 06:00	06/06/20 02:44		7440-42-8	
Calcium	3100	ug/L	1000	1	06/02/20 06:00	06/06/20 02:44		7440-70-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
		Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1370	mg/L	20.0	1			05/26/20 11:02		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
		Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.7	Std. Units	0.10	1			05/28/20 10:23		H3

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

Sample: SWW-43		Lab ID: 50258015004		Collected: 05/19/20 13:35		Received: 05/22/20 15:40		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056							
		Pace Analytical Services - Indianapolis							
Chloride	331	mg/L	25.0	100			06/04/20 18:34	16887-00-6	
Fluoride	4.6	mg/L	0.10	1			06/04/20 17:56	16984-48-8	
Sulfate	0.88	mg/L	0.25	1			06/04/20 17:56	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
		Pace Analytical Services - Indianapolis							
Boron	1210	ug/L	100	1	06/02/20 06:00	06/06/20 02:46		7440-42-8	
Calcium	3780	ug/L	1000	1	06/02/20 06:00	06/06/20 02:46		7440-70-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
		Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1390	mg/L	20.0	1			05/26/20 11:02		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
		Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.7	Std. Units	0.10	1			05/28/20 10:25		H3

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

Sample: SWW-44		Lab ID: 50258015005		Collected: 05/19/20 14:50		Received: 05/22/20 15:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions	Analytical Method: EPA 9056								
	Pace Analytical Services - Indianapolis								
	Chloride	365	mg/L	25.0	100		06/04/20 19:32	16887-00-6	
	Fluoride	5.2	mg/L	1.0	10		06/04/20 19:13	16984-48-8	
	Sulfate	4.3	mg/L	0.25	1		06/04/20 18:54	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Pace Analytical Services - Indianapolis								
	Boron	1110	ug/L	100	1	06/02/20 06:00	06/06/20 02:48	7440-42-8	
Calcium	2580	ug/L	1000	1	06/02/20 06:00	06/06/20 02:48	7440-70-2		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
	Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1480	mg/L	40.0	1		05/26/20 11:02			
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
	Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	8.7	Std. Units	0.10	1		05/28/20 10:27		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

Sample: SWW-45		Lab ID: 50258015006		Collected: 05/20/20 13:05		Received: 05/22/20 15:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056							
		Pace Analytical Services - Indianapolis							
Chloride	505	mg/L	25.0	100		06/04/20 20:30	16887-00-6		
Fluoride	4.9	mg/L	0.10	1		06/04/20 19:52	16984-48-8		
Sulfate	0.26	mg/L	0.25	1		06/04/20 19:52	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
		Pace Analytical Services - Indianapolis							
Boron	1120	ug/L	100	1	06/02/20 06:00	06/06/20 02:50	7440-42-8		
Calcium	3030	ug/L	1000	1	06/02/20 06:00	06/06/20 02:50	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
		Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1720	mg/L	40.0	1		05/27/20 15:17			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
		Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.7	Std. Units	0.10	1		05/28/20 10:31		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

Sample: SWW-46		Lab ID: 50258015007		Collected: 05/21/20 12:10		Received: 05/22/20 15:40		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056							
		Pace Analytical Services - Indianapolis							
Chloride	320	mg/L	25.0	100			06/04/20 23:24	16887-00-6	
Fluoride	4.7	mg/L	0.10	1			06/04/20 21:28	16984-48-8	
Sulfate	19.9	mg/L	0.25	1			06/04/20 21:28	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
		Pace Analytical Services - Indianapolis							
Boron	1110	ug/L	100	1	06/02/20 06:00		06/06/20 02:52	7440-42-8	
Calcium	4450	ug/L	1000	1	06/02/20 06:00		06/06/20 02:52	7440-70-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
		Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1540	mg/L	40.0	1			05/28/20 15:47		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
		Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.7	Std. Units	0.10	1			05/28/20 10:36		H3

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

Sample: SWW-47		Lab ID: 50258015008		Collected: 05/21/20 14:00		Received: 05/22/20 15:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions	Analytical Method: EPA 9056								
	Pace Analytical Services - Indianapolis								
	Chloride	171	mg/L	25.0	100		06/05/20 01:39	16887-00-6	
	Fluoride	2.7	mg/L	0.10	1		06/05/20 01:01	16984-48-8	
Sulfate	4.4	mg/L	0.25	1		06/05/20 01:01	14808-79-8		
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Pace Analytical Services - Indianapolis								
	Boron	878	ug/L	100	1	06/02/20 06:00	06/06/20 03:07	7440-42-8	
Calcium	10200	ug/L	1000	1	06/02/20 06:00	06/06/20 03:07	7440-70-2		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
	Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1090	mg/L	20.0	1		05/28/20 15:48			
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
	Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	8.5	Std. Units	0.10	1		05/28/20 10:40		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

Sample: DUP-1		Lab ID: 50258015009		Collected: 05/21/20 08:00		Received: 05/22/20 15:40		Matrix: Water		
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056								
		Pace Analytical Services - Indianapolis								
		Chloride	171	mg/L	25.0	100		06/05/20 02:37	16887-00-6	
		Fluoride	2.7	mg/L	0.10	1		06/05/20 01:58	16984-48-8	
		Sulfate	4.4	mg/L	0.25	1		06/05/20 01:58	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010								
		Pace Analytical Services - Indianapolis								
		Boron	887	ug/L	100	1	06/02/20 06:00	06/06/20 03:09	7440-42-8	
Calcium	9590	ug/L	1000	1	06/02/20 06:00	06/06/20 03:09	7440-70-2			
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
		Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1070	mg/L	20.0	1			05/28/20 15:48			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B								
		Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	8.5	Std. Units	0.10	1			05/28/20 10:34		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

Sample: FB-1		Lab ID: 50258015010		Collected: 05/22/20 12:10		Received: 05/22/20 15:40		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056							
		Pace Analytical Services - Indianapolis							
Chloride	ND	mg/L	0.25	1			06/05/20 02:56	16887-00-6	
Fluoride	ND	mg/L	0.10	1			06/05/20 02:56	16984-48-8	
Sulfate	ND	mg/L	0.25	1			06/05/20 02:56	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
		Pace Analytical Services - Indianapolis							
Boron	ND	ug/L	100	1	06/02/20 06:00		06/06/20 03:11	7440-42-8	
Calcium	ND	ug/L	1000	1	06/02/20 06:00		06/06/20 03:11	7440-70-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
		Pace Analytical Services - Indianapolis							
Total Dissolved Solids	ND	mg/L	10.0	1			05/29/20 11:30		PL
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
		Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	5.6	Std. Units	0.10	1			05/28/20 10:53		H3

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

QC Batch:	565388	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50258015001, 50258015002, 50258015003, 50258015004, 50258015005, 50258015006, 50258015007, 50258015008, 50258015009, 50258015010		

METHOD BLANK: 2607823

Matrix: Water

Associated Lab Samples: 50258015001, 50258015002, 50258015003, 50258015004, 50258015005, 50258015006, 50258015007, 50258015008, 50258015009, 50258015010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	06/04/20 11:10	
Fluoride	mg/L	ND	0.10	06/04/20 11:10	
Sulfate	mg/L	ND	0.25	06/04/20 11:10	

LABORATORY CONTROL SAMPLE: 2607824

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.1	91	80-120	
Fluoride	mg/L	0.5	0.49	97	80-120	
Sulfate	mg/L	2.5	2.5	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2607825 2607826

Parameter	Units	50258015007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	320	125	125	419	422	80	82	80-120	1	15	
Fluoride	mg/L	4.7	0.5	0.5	5.3	5.2	107	101	80-120	1	15	E
Sulfate	mg/L	19.9	2.5	2.5	22.4	22.4	102	100	80-120	0	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR III
Pace Project No.: 50258015

QC Batch:	564238	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50258015001, 50258015002, 50258015003, 50258015004, 50258015005, 50258015006, 50258015007, 50258015008, 50258015009, 50258015010		

METHOD BLANK: 2603055 Matrix: Water
Associated Lab Samples: 50258015001, 50258015002, 50258015003, 50258015004, 50258015005, 50258015006, 50258015007, 50258015008, 50258015009, 50258015010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	ug/L	ND	100	06/06/20 02:22	
Calcium	ug/L	ND	1000	06/06/20 02:22	

LABORATORY CONTROL SAMPLE: 2603056

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	975	97	80-120	
Calcium	ug/L	10000	9840	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2603057 2603058

Parameter	Units	50258015007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	1110	1000	1000	2100	2140	99	103	75-125	2	20	
Calcium	ug/L	4450	10000	10000	14200	14400	98	99	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2604571 2604572

Parameter	Units	50258205001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	810	1000	1000	1860	1820	105	100	75-125	2	20	
Calcium	ug/L	96500	10000	10000	109000	108000	122	113	75-125	1	20	

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

QC Batch:	563524	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50258015003, 50258015004, 50258015005

METHOD BLANK: 2599998 Matrix: Water

Associated Lab Samples: 50258015003, 50258015004, 50258015005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/26/20 10:56	

LABORATORY CONTROL SAMPLE: 2599999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	266	89	80-120	

SAMPLE DUPLICATE: 2600000

Parameter	Units	50257903001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	544	544	0	10	

SAMPLE DUPLICATE: 2600001

Parameter	Units	50257658001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	530	530	0	10	

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

QC Batch: 563737

QC Batch Method: SM 2540C

Analysis Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50258015002, 50258015006

METHOD BLANK: 2600653

Matrix: Water

Associated Lab Samples: 50258015002, 50258015006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/27/20 15:12	

LABORATORY CONTROL SAMPLE: 2600654

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	272	91	80-120	

SAMPLE DUPLICATE: 2600655

Parameter	Units	50257867002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1190	1170	2	10	

SAMPLE DUPLICATE: 2600656

Parameter	Units	50257872001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	674	664	1	10	

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

QC Batch:	564010	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples: 50258015007, 50258015008, 50258015009			

METHOD BLANK: 2601912 Matrix: Water

Associated Lab Samples: 50258015007, 50258015008, 50258015009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/28/20 15:42	

LABORATORY CONTROL SAMPLE: 2601913

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	265	88	80-120	

SAMPLE DUPLICATE: 2601914

Parameter	Units	50258015007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1540	1580	2	10	

SAMPLE DUPLICATE: 2601915

Parameter	Units	50258019003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	832	840	1	10	

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

QC Batch: 564334

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50258015001, 50258015010

METHOD BLANK: 2603458

Matrix: Water

Associated Lab Samples: 50258015001, 50258015010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/29/20 11:27	

LABORATORY CONTROL SAMPLE: 2603459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	268	89	80-120	

SAMPLE DUPLICATE: 2603460

Parameter	Units	50257993004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	6800	6740	1	10	

SAMPLE DUPLICATE: 2603461

Parameter	Units	50258019016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	307	321	4	10	

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

QC Batch:	564018	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50258015001, 50258015002, 50258015003, 50258015004, 50258015005, 50258015006, 50258015007, 50258015008, 50258015009, 50258015010		

SAMPLE DUPLICATE: 2601938

Parameter	Units	50258015007 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.7	8.7	0	2	H3

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QUALIFIERS

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

H3 Sample was received or analysis requested beyond the recognized method holding time.

PL The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Merom Area 3 CCR III

Pace Project No.: 50258015

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50258015001	SWW-40	EPA 9056	565388		
50258015002	SWW-41	EPA 9056	565388		
50258015003	SWW-42	EPA 9056	565388		
50258015004	SWW-43	EPA 9056	565388		
50258015005	SWW-44	EPA 9056	565388		
50258015006	SWW-45	EPA 9056	565388		
50258015007	SWW-46	EPA 9056	565388		
50258015008	SWW-47	EPA 9056	565388		
50258015009	DUP-1	EPA 9056	565388		
50258015010	FB-1	EPA 9056	565388		
50258015001	SWW-40	EPA 3010	564238	EPA 6010	565767
50258015002	SWW-41	EPA 3010	564238	EPA 6010	565767
50258015003	SWW-42	EPA 3010	564238	EPA 6010	565767
50258015004	SWW-43	EPA 3010	564238	EPA 6010	565767
50258015005	SWW-44	EPA 3010	564238	EPA 6010	565767
50258015006	SWW-45	EPA 3010	564238	EPA 6010	565767
50258015007	SWW-46	EPA 3010	564238	EPA 6010	565767
50258015008	SWW-47	EPA 3010	564238	EPA 6010	565767
50258015009	DUP-1	EPA 3010	564238	EPA 6010	565767
50258015010	FB-1	EPA 3010	564238	EPA 6010	565767
50258015001	SWW-40	SM 2540C	564334		
50258015002	SWW-41	SM 2540C	563737		
50258015003	SWW-42	SM 2540C	563524		
50258015004	SWW-43	SM 2540C	563524		
50258015005	SWW-44	SM 2540C	563524		
50258015006	SWW-45	SM 2540C	563737		
50258015007	SWW-46	SM 2540C	564010		
50258015008	SWW-47	SM 2540C	564010		
50258015009	DUP-1	SM 2540C	564010		
50258015010	FB-1	SM 2540C	564334		
50258015001	SWW-40	SM 4500-H+B	564018		
50258015002	SWW-41	SM 4500-H+B	564018		
50258015003	SWW-42	SM 4500-H+B	564018		
50258015004	SWW-43	SM 4500-H+B	564018		
50258015005	SWW-44	SM 4500-H+B	564018		
50258015006	SWW-45	SM 4500-H+B	564018		
50258015007	SWW-46	SM 4500-H+B	564018		
50258015008	SWW-47	SM 4500-H+B	564018		
50258015009	DUP-1	SM 4500-H+B	564018		
50258015010	FB-1	SM 4500-H+B	564018		

REPORT OF LABORATORY ANALYSIS

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50258015



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Informa

Company:	ATC Group Services	
Address:	7988 Centerpoint Drive	
	Indianapolis, IN 46268	
Email:	slawa.bruder@atcassociates.com	
Phone:	579-4029	Fax:
Requested Due Date:		

Required Project Information:

Report To:	Slawa Bruder
Copy To:	
Purchase Order #:	
Project Name:	Merom Area 3 CCR III
Project #:	

Section C

Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	donna.spyker@pacelabs.com,
Pace Profile #:	6303/6

Page : 1 Of 1

Regulatory Agency

State / Location

IN

[illegible]

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Problems Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed:				
And Jashwanth 					
					



SAMPLE CONDITION UPON RECEIPT FORM

Project #: 50258015

Date/Time and Initials of person examining contents: CT 5/23/20 756

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

Seals Intact: ☒ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

Thermometer: 1 2 3 4 5 6 A B C D E F Ice Type: ☒ Wet ☐ Blue ☐ None | Samples collected today and on ice: ☐ Yes ☐ No ☒ N/A

Cooler Temperature: 2.0/2.1, 2.2/2.3 Ice Visible in Sample Containers?: ☐ Yes ☒ No ☐ N/A

(Initial/Corrected) Temp should be above freezing to 6°C If temp. is Over 6°C or under 0°C, was the PM Notified?: ☐ Yes ☐ No ☒ N/A

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		X	All containers needing acid/base pres. Have been checked?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		X	All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	X		
Chain of Custody Present:	X		Circle: <u>HNO3</u> H2SO4 NaOH NaOH/ZnAc			
Chain of Custody Filled Out:	X		Dissolved Metals field filtered?:			X
Short Hold Time Analysis (<72hr)?: Analysis:		X	Headspace Wisconsin Sulfide			X
Time 5035A TC placed in Freezer or Short Holds To Lab:			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
			Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Rush TAT Requested:		X	Headspace in VOA Vials (>6mm):			X
Containers Intact?:	X		Trip Blank Present?:		X	
Sample Labels (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	X		Trip Blank Custody Seals?:		X	
Extra labels on Terracore Vials (soils only)?		X				

Comments: _____

Container Codes

F-IN-Q-270-rev.11,26Sep2019

December 14, 2020

Ms. Slawa Bruder
ATC Group Services
7988 Centerpoint Drive
Indianapolis, IN 46268

RE: Project: Merom Area 3 CCR III
Pace Project No.: 50273913

Dear Ms. Bruder:

Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 2020. The results relate only 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 - Indianapolis

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

Sincerely,



Donna Spyker
donna.spyker@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

West Virginia Certification #: 330

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50273913001	SWW-40	Water	11/17/20 17:00	11/20/20 13:30
50273913002	SWW-41	Water	11/19/20 12:15	11/20/20 13:30
50273913003	SWW-42	Water	11/19/20 13:55	11/20/20 13:30
50273913004	SWW-43	Water	11/19/20 13:00	11/20/20 13:30
50273913005	SWW-44	Water	11/17/20 12:27	11/20/20 13:30
50273913006	SWW-45	Water	11/17/20 09:59	11/20/20 13:30
50273913007	SWW-46	Water	11/19/20 15:20	11/20/20 13:30
50273913008	SWW-47	Water	11/19/20 17:00	11/20/20 13:30
50273913009	DUP-1	Water	11/19/20 08:00	11/20/20 13:30
50273913010	FB-1	Water	11/19/20 14:05	11/20/20 13:30

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SAMPLE ANALYTE COUNT

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50273913001	SWW-40	EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50273913002	SWW-41	EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50273913003	SWW-42	EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50273913004	SWW-43	EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50273913005	SWW-44	EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50273913006	SWW-45	EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50273913007	SWW-46	EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50273913008	SWW-47	EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50273913009	DUP-1	EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I
50273913010	FB-1	EPA 9056	HBS	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	KJE	2	PASI-I
		SM 2540C	MMS	1	PASI-I
		SM 4500-H+B	TPD	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50273913001	SWW-40					
EPA 9056	Chloride	232	mg/L	25.0	12/11/20 14:32	
EPA 9056	Fluoride	4.9	mg/L	0.10	12/11/20 14:06	
EPA 9056	Sulfate	11.1	mg/L	0.25	12/11/20 14:06	
EPA 6010	Boron	985	ug/L	100	12/10/20 10:12	
EPA 6010	Calcium	2840	ug/L	1000	12/10/20 10:12	
SM 2540C	Total Dissolved Solids	1320	mg/L	20.0	11/23/20 09:33	
SM 4500-H+B	pH at 25 Degrees C	8.5	Std. Units	0.10	11/25/20 14:38	H3
50273913002	SWW-41					
EPA 9056	Chloride	265	mg/L	25.0	12/11/20 15:21	
EPA 9056	Fluoride	5.0	mg/L	1.0	12/11/20 15:05	
EPA 9056	Sulfate	3.7	mg/L	0.25	12/11/20 14:49	
EPA 6010	Boron	1090	ug/L	100	12/10/20 10:15	
EPA 6010	Calcium	2320	ug/L	1000	12/10/20 10:15	
SM 2540C	Total Dissolved Solids	1470	mg/L	40.0	11/24/20 10:01	
SM 4500-H+B	pH at 25 Degrees C	8.5	Std. Units	0.10	11/25/20 14:39	H3
50273913003	SWW-42					
EPA 9056	Chloride	304	mg/L	25.0	12/11/20 15:54	
EPA 9056	Fluoride	4.2	mg/L	0.10	12/11/20 15:38	
EPA 9056	Sulfate	0.29	mg/L	0.25	12/11/20 15:38	
EPA 6010	Boron	1230	ug/L	100	12/10/20 10:17	
EPA 6010	Calcium	2220	ug/L	1000	12/10/20 10:17	
SM 2540C	Total Dissolved Solids	1390	mg/L	20.0	11/24/20 10:02	
SM 4500-H+B	pH at 25 Degrees C	8.4	Std. Units	0.10	11/25/20 14:40	H3
50273913004	SWW-43					
EPA 9056	Chloride	348	mg/L	25.0	12/11/20 16:59	
EPA 9056	Fluoride	4.9	mg/L	0.10	12/11/20 16:43	
EPA 9056	Sulfate	0.73	mg/L	0.25	12/11/20 16:43	
EPA 6010	Boron	1180	ug/L	100	12/10/20 10:19	
EPA 6010	Calcium	3520	ug/L	1000	12/10/20 10:19	
SM 2540C	Total Dissolved Solids	1360	mg/L	40.0	11/24/20 10:02	
SM 4500-H+B	pH at 25 Degrees C	8.6	Std. Units	0.10	11/25/20 14:41	H3
50273913005	SWW-44					
EPA 9056	Chloride	360	mg/L	25.0	12/11/20 17:48	
EPA 9056	Fluoride	4.8	mg/L	1.0	12/11/20 17:32	
EPA 9056	Sulfate	8.7	mg/L	0.25	12/11/20 17:15	
EPA 6010	Boron	1090	ug/L	100	12/10/20 10:26	
EPA 6010	Calcium	2450	ug/L	1000	12/10/20 10:26	
SM 2540C	Total Dissolved Solids	1570	mg/L	40.0	11/23/20 09:34	
SM 4500-H+B	pH at 25 Degrees C	8.6	Std. Units	0.10	11/25/20 14:43	H3
50273913006	SWW-45					
EPA 9056	Chloride	506	mg/L	25.0	12/11/20 18:21	
EPA 9056	Fluoride	5.0	mg/L	0.10	12/11/20 18:04	
EPA 9056	Sulfate	0.26	mg/L	0.25	12/11/20 18:04	
EPA 6010	Boron	1080	ug/L	100	12/10/20 10:28	

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SUMMARY OF DETECTION

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50273913006	SWW-45					
EPA 6010	Calcium	2800	ug/L	1000	12/10/20 10:28	
SM 2540C	Total Dissolved Solids	1700	mg/L	40.0	11/23/20 09:34	
SM 4500-H+B	pH at 25 Degrees C	8.6	Std. Units	0.10	11/25/20 14:44	H3
50273913007	SWW-46					
EPA 9056	Chloride	322	mg/L	25.0	12/11/20 19:58	
EPA 9056	Fluoride	4.8	mg/L	0.10	12/11/20 18:37	
EPA 9056	Sulfate	22.6	mg/L	0.25	12/11/20 18:37	
EPA 6010	Boron	1090	ug/L	100	12/10/20 10:30	
EPA 6010	Calcium	3410	ug/L	1000	12/10/20 10:30	
SM 2540C	Total Dissolved Solids	1560	mg/L	40.0	11/24/20 10:02	
SM 4500-H+B	pH at 25 Degrees C	8.6	Std. Units	0.10	11/25/20 14:45	H3
50273913008	SWW-47					
EPA 9056	Chloride	168	mg/L	25.0	12/11/20 21:04	
EPA 9056	Fluoride	2.7	mg/L	0.10	12/11/20 20:47	
EPA 9056	Sulfate	6.2	mg/L	0.25	12/11/20 20:47	
EPA 6010	Boron	847	ug/L	100	12/10/20 10:41	
EPA 6010	Calcium	14300	ug/L	1000	12/10/20 10:41	
SM 2540C	Total Dissolved Solids	1110	mg/L	40.0	11/24/20 10:03	
SM 4500-H+B	pH at 25 Degrees C	8.5	Std. Units	0.10	11/25/20 14:47	H3
50273913009	DUP-1					
EPA 9056	Chloride	356	mg/L	25.0	12/11/20 21:36	
EPA 9056	Fluoride	4.8	mg/L	0.10	12/14/20 14:04	
EPA 9056	Sulfate	0.74	mg/L	0.25	12/14/20 14:04	
EPA 6010	Boron	1200	ug/L	100	12/10/20 10:43	
EPA 6010	Calcium	3540	ug/L	1000	12/10/20 10:43	
SM 2540C	Total Dissolved Solids	1360	mg/L	40.0	11/24/20 10:03	
SM 4500-H+B	pH at 25 Degrees C	8.6	Std. Units	0.10	11/25/20 14:49	H3
50273913010	FB-1					
SM 4500-H+B	pH at 25 Degrees C	6.6	Std. Units	0.10	11/25/20 14:56	H3

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

Sample: SWW-40		Lab ID: 50273913001		Collected: 11/17/20 17:00		Received: 11/20/20 13:30		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056							
		Pace Analytical Services - Indianapolis							
Chloride	232	mg/L	25.0	100			12/11/20 14:32	16887-00-6	
Fluoride	4.9	mg/L	0.10	1			12/11/20 14:06	16984-48-8	
Sulfate	11.1	mg/L	0.25	1			12/11/20 14:06	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
		Pace Analytical Services - Indianapolis							
Boron	985	ug/L	100	1	12/08/20 14:12	12/10/20 10:12		7440-42-8	
Calcium	2840	ug/L	1000	1	12/08/20 14:12	12/10/20 10:12		7440-70-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
		Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1320	mg/L	20.0	1			11/23/20 09:33		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
		Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.5	Std. Units	0.10	1			11/25/20 14:38		H3

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

Sample: SWW-41		Lab ID: 50273913002		Collected: 11/19/20 12:15		Received: 11/20/20 13:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	265	mg/L	25.0	100		12/11/20 15:21	16887-00-6		
Fluoride	5.0	mg/L	1.0	10		12/11/20 15:05	16984-48-8		
Sulfate	3.7	mg/L	0.25	1		12/11/20 14:49	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	1090	ug/L	100	1	12/08/20 14:12	12/10/20 10:15	7440-42-8		
Calcium	2320	ug/L	1000	1	12/08/20 14:12	12/10/20 10:15	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1470	mg/L	40.0	1		11/24/20 10:01			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.5	Std. Units	0.10	1		11/25/20 14:39		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

Sample: SWW-42		Lab ID: 50273913003		Collected: 11/19/20 13:55		Received: 11/20/20 13:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	304	mg/L	25.0	100		12/11/20 15:54	16887-00-6		
Fluoride	4.2	mg/L	0.10	1		12/11/20 15:38	16984-48-8		
Sulfate	0.29	mg/L	0.25	1		12/11/20 15:38	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	1230	ug/L	100	1	12/08/20 14:12	12/10/20 10:17	7440-42-8		
Calcium	2220	ug/L	1000	1	12/08/20 14:12	12/10/20 10:17	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1390	mg/L	20.0	1		11/24/20 10:02			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.4	Std. Units	0.10	1		11/25/20 14:40		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

Sample: SWW-43		Lab ID: 50273913004		Collected: 11/19/20 13:00		Received: 11/20/20 13:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056							
		Pace Analytical Services - Indianapolis							
Chloride	348	mg/L	25.0	100		12/11/20 16:59	16887-00-6		
Fluoride	4.9	mg/L	0.10	1		12/11/20 16:43	16984-48-8		
Sulfate	0.73	mg/L	0.25	1		12/11/20 16:43	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
		Pace Analytical Services - Indianapolis							
Boron	1180	ug/L	100	1	12/08/20 14:12	12/10/20 10:19	7440-42-8		
Calcium	3520	ug/L	1000	1	12/08/20 14:12	12/10/20 10:19	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
		Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1360	mg/L	40.0	1		11/24/20 10:02			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
		Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.6	Std. Units	0.10	1		11/25/20 14:41		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

Sample: SWW-44		Lab ID: 50273913005		Collected: 11/17/20 12:27		Received: 11/20/20 13:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056							
		Pace Analytical Services - Indianapolis							
Chloride	360	mg/L	25.0	100		12/11/20 17:48	16887-00-6		
Fluoride	4.8	mg/L	1.0	10		12/11/20 17:32	16984-48-8		
Sulfate	8.7	mg/L	0.25	1		12/11/20 17:15	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
		Pace Analytical Services - Indianapolis							
Boron	1090	ug/L	100	1	12/08/20 14:12	12/10/20 10:26	7440-42-8		
Calcium	2450	ug/L	1000	1	12/08/20 14:12	12/10/20 10:26	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
		Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1570	mg/L	40.0	1		11/23/20 09:34			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
		Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.6	Std. Units	0.10	1		11/25/20 14:43		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

Sample: SWW-45		Lab ID: 50273913006		Collected: 11/17/20 09:59		Received: 11/20/20 13:30		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056							
		Pace Analytical Services - Indianapolis							
Chloride	506	mg/L	25.0	100		12/11/20 18:21	16887-00-6		
Fluoride	5.0	mg/L	0.10	1		12/11/20 18:04	16984-48-8		
Sulfate	0.26	mg/L	0.25	1		12/11/20 18:04	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
		Pace Analytical Services - Indianapolis							
Boron	1080	ug/L	100	1	12/08/20 14:12	12/10/20 10:28	7440-42-8		
Calcium	2800	ug/L	1000	1	12/08/20 14:12	12/10/20 10:28	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
		Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1700	mg/L	40.0	1		11/23/20 09:34			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
		Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.6	Std. Units	0.10	1		11/25/20 14:44		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

Sample: SWW-46		Lab ID: 50273913007		Collected: 11/19/20 15:20		Received: 11/20/20 13:30		Matrix: Water		
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056								
		Pace Analytical Services - Indianapolis								
		Chloride	322	mg/L	25.0	100		12/11/20 19:58	16887-00-6	
		Fluoride	4.8	mg/L	0.10	1		12/11/20 18:37	16984-48-8	
		Sulfate	22.6	mg/L	0.25	1		12/11/20 18:37	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010								
		Pace Analytical Services - Indianapolis								
		Boron	1090	ug/L	100	1	12/08/20 14:12	12/10/20 10:30	7440-42-8	
Calcium	3410	ug/L	1000	1	12/08/20 14:12	12/10/20 10:30	7440-70-2			
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
		Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1560	mg/L	40.0	1		11/24/20 10:02				
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B								
		Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	8.6	Std. Units	0.10	1		11/25/20 14:45			H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

Sample: SWW-47		Lab ID: 50273913008		Collected: 11/19/20 17:00		Received: 11/20/20 13:30		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056							
		Pace Analytical Services - Indianapolis							
Chloride	168	mg/L	25.0	100			12/11/20 21:04	16887-00-6	
Fluoride	2.7	mg/L	0.10	1			12/11/20 20:47	16984-48-8	
Sulfate	6.2	mg/L	0.25	1			12/11/20 20:47	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
		Pace Analytical Services - Indianapolis							
Boron	847	ug/L	100	1	12/08/20 14:12	12/10/20 10:41		7440-42-8	
Calcium	14300	ug/L	1000	1	12/08/20 14:12	12/10/20 10:41		7440-70-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
		Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1110	mg/L	40.0	1			11/24/20 10:03		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
		Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.5	Std. Units	0.10	1			11/25/20 14:47		H3

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

Sample: DUP-1		Lab ID: 50273913009		Collected: 11/19/20 08:00		Received: 11/20/20 13:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	356	mg/L	25.0	100		12/11/20 21:36	16887-00-6		
Fluoride	4.8	mg/L	0.10	1		12/14/20 14:04	16984-48-8		
Sulfate	0.74	mg/L	0.25	1		12/14/20 14:04	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	1200	ug/L	100	1	12/08/20 14:12	12/10/20 10:43	7440-42-8		
Calcium	3540	ug/L	1000	1	12/08/20 14:12	12/10/20 10:43	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1360	mg/L	40.0	1		11/24/20 10:03			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.6	Std. Units	0.10	1		11/25/20 14:49		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

Sample: FB-1		Lab ID: 50273913010		Collected: 11/19/20 14:05		Received: 11/20/20 13:30		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056							
		Pace Analytical Services - Indianapolis							
Chloride	ND	mg/L	0.25	1		12/11/20 22:09	16887-00-6		
Fluoride	ND	mg/L	0.10	1		12/11/20 22:09	16984-48-8		
Sulfate	ND	mg/L	0.25	1		12/11/20 22:09	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
		Pace Analytical Services - Indianapolis							
Boron	ND	ug/L	100	1	12/08/20 14:12	12/10/20 10:45	7440-42-8		
Calcium	ND	ug/L	1000	1	12/08/20 14:12	12/10/20 10:45	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
		Pace Analytical Services - Indianapolis							
Total Dissolved Solids	ND	mg/L	10.0	1		11/24/20 10:03		PL	
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
		Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.6	Std. Units	0.10	1		11/25/20 14:56		H3	

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

QC Batch:	597498	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50273913001, 50273913002, 50273913003, 50273913004, 50273913005, 50273913006, 50273913007, 50273913008, 50273913009, 50273913010		

METHOD BLANK:	2756385	Matrix:	Water
Associated Lab Samples:	50273913001, 50273913002, 50273913003, 50273913004, 50273913005, 50273913006, 50273913007, 50273913008, 50273913009, 50273913010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	12/11/20 13:33	
Fluoride	mg/L	ND	0.10	12/11/20 13:33	
Sulfate	mg/L	ND	0.25	12/11/20 13:33	

LABORATORY CONTROL SAMPLE: 2756386						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	97	80-120	
Fluoride	mg/L	0.5	0.50	100	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2756387					2756388							
Parameter	Units	50273913007	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	322	125	125	454	453	106	105	80-120	0	15	
Fluoride	mg/L	4.8	0.5	0.5	5.3	5.3	101	101	80-120	0	15	E
Sulfate	mg/L	22.6	2.5	2.5	25.3	25.4	110	111	80-120	0	15	E

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2756389 2756390												
Parameter	Units	50273938002	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike	Spike								
Chloride	mg/L	24.7	12.5	12.5	37.1	37.1	99	99	80-120	0	15	
Fluoride	mg/L	0.33	0.5	0.5	0.85	0.86	104	106	80-120	1	15	
Sulfate	mg/L	445	250	250	689	682	97	95	80-120	1	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

QC Batch:	596311	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50273913001, 50273913002, 50273913003, 50273913004, 50273913005, 50273913006, 50273913007, 50273913008, 50273913009, 50273913010		

METHOD BLANK:	2750215	Matrix:	Water
Associated Lab Samples:	50273913001, 50273913002, 50273913003, 50273913004, 50273913005, 50273913006, 50273913007, 50273913008, 50273913009, 50273913010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	ug/L	ND	100	12/10/20 10:10	
Calcium	ug/L	ND	1000	12/10/20 10:10	

LABORATORY CONTROL SAMPLE:	2750216					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	1060	106	80-120	
Calcium	ug/L	10000	10300	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	2750217			2750218								
Parameter	Units	50273913007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	1090	1000	1000	2160	2140	107	105	75-125	1	20	
Calcium	ug/L	3410	10000	10000	13400	13300	100	99	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	2750219			2750220								
Parameter	Units	50273938002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	11200	1000	1000	12300	12800	113	158	75-125	4	20	P6
Calcium	ug/L	159000	10000	10000	168000	173000	93	147	75-125	3	20	P6

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

QC Batch:	594702	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50273913001, 50273913005, 50273913006		

METHOD BLANK: 2743877 Matrix: Water

Associated Lab Samples: 50273913001, 50273913005, 50273913006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/23/20 09:31	

LABORATORY CONTROL SAMPLE: 2743878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	264	88	80-120	

SAMPLE DUPLICATE: 2743879

Parameter	Units	50273847002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	404	408	1	10	

SAMPLE DUPLICATE: 2743880

Parameter	Units	50273916011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	257	249	3	10	

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

QC Batch:	594944	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples: 50273913002, 50273913003, 50273913004, 50273913007, 50273913008, 50273913009, 50273913010			

METHOD BLANK:	2744679	Matrix:	Water
Associated Lab Samples: 50273913002, 50273913003, 50273913004, 50273913007, 50273913008, 50273913009, 50273913010			

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/24/20 09:59	

LABORATORY CONTROL SAMPLE: 2744680						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	284	95	80-120	

SAMPLE DUPLICATE: 2744681						
Parameter	Units	50273913007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1560	1590	2	10	

SAMPLE DUPLICATE: 2744682						
Parameter	Units	50273930004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	998	1010	1	10	

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

QC Batch: 595318

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50273913001, 50273913002, 50273913003, 50273913004, 50273913005, 50273913006, 50273913007, 50273913008, 50273913009, 50273913010

SAMPLE DUPLICATE: 2746365

Parameter	Units	50273934001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.2	1	2	H3

SAMPLE DUPLICATE: 2746366

Parameter	Units	50273913007 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.6	8.6	0	2	H3

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QUALIFIERS

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

H3 Sample was received or analysis requested beyond the recognized method holding time.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

PL The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Merom Area 3 CCR III

Pace Project No.: 50273913

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50273913001	SWW-40	EPA 9056	597498		
50273913002	SWW-41	EPA 9056	597498		
50273913003	SWW-42	EPA 9056	597498		
50273913004	SWW-43	EPA 9056	597498		
50273913005	SWW-44	EPA 9056	597498		
50273913006	SWW-45	EPA 9056	597498		
50273913007	SWW-46	EPA 9056	597498		
50273913008	SWW-47	EPA 9056	597498		
50273913009	DUP-1	EPA 9056	597498		
50273913010	FB-1	EPA 9056	597498		
50273913001	SWW-40	EPA 3010	596311	EPA 6010	597374
50273913002	SWW-41	EPA 3010	596311	EPA 6010	597374
50273913003	SWW-42	EPA 3010	596311	EPA 6010	597374
50273913004	SWW-43	EPA 3010	596311	EPA 6010	597374
50273913005	SWW-44	EPA 3010	596311	EPA 6010	597374
50273913006	SWW-45	EPA 3010	596311	EPA 6010	597374
50273913007	SWW-46	EPA 3010	596311	EPA 6010	597374
50273913008	SWW-47	EPA 3010	596311	EPA 6010	597374
50273913009	DUP-1	EPA 3010	596311	EPA 6010	597374
50273913010	FB-1	EPA 3010	596311	EPA 6010	597374
50273913001	SWW-40	SM 2540C	594702		
50273913002	SWW-41	SM 2540C	594944		
50273913003	SWW-42	SM 2540C	594944		
50273913004	SWW-43	SM 2540C	594944		
50273913005	SWW-44	SM 2540C	594702		
50273913006	SWW-45	SM 2540C	594702		
50273913007	SWW-46	SM 2540C	594944		
50273913008	SWW-47	SM 2540C	594944		
50273913009	DUP-1	SM 2540C	594944		
50273913010	FB-1	SM 2540C	594944		
50273913001	SWW-40	SM 4500-H+B	595318		
50273913002	SWW-41	SM 4500-H+B	595318		
50273913003	SWW-42	SM 4500-H+B	595318		
50273913004	SWW-43	SM 4500-H+B	595318		
50273913005	SWW-44	SM 4500-H+B	595318		
50273913006	SWW-45	SM 4500-H+B	595318		
50273913007	SWW-46	SM 4500-H+B	595318		
50273913008	SWW-47	SM 4500-H+B	595318		
50273913009	DUP-1	SM 4500-H+B	595318		
50273913010	FB-1	SM 4500-H+B	595318		

REPORT OF LABORATORY ANALYSIS

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50273813

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Company:	ATC Group Services	
Address:	7988 Centerpoint Drive	
	Indianapolis, IN 46268	
Email:	slawa.bruder@atcassociales.com	
Phone:	579-4029	Fax:
Requested Due Date:		

Required Project Information:

Report To:	Slawa Bruder
Copy To:	
Purchase Order #:	
Project Name:	Merom Area 3 CCR III
Project #:	

Section C

Invoice Information:

Attention:	
Company Name:	
Address:	
Phone:	
Fax:	
E-mail:	
Web Site:	
Business Hours:	
Special Notes:	
Pace Project Manager:	donna.spyker@pacelabs.com,
Pace Profile #:	6303/6

Page : 1 Of 1

Regulatory Agency

State / Location

IN

[illegible]

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (N/N)	Custody Sealed Cooler (N/N)	Samples Intact (N/N)
PRINT Name of SAMPLER: Jared W. Wessett					
SIGNATURE OF SAMPLER: <i>Jared W. Wessett</i>					
DATE Signed: 11-19-20					



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: MTL 11/20/20 1354

Courier: Fed Ex UPS Client Pace USPS Other _____

Custody Seal on Cooler/Box Present: Yes No (if yes) Seals intact: Yes No (leave blank if no seals were present)

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer: 1 2 3 4 5 6 A B C D E E

Ice Type: Wet Blue None

Cooler Temperature: 1.2/1.1 1.2/1.7 1.4/1.3 1.2/1.1 1.7/1.6

If temp. is over 6°C or under 0°C, was the PM notified?: Yes No

Temp should be above freezing to 6°C (Initial/Corrected)

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		☒	All containers needing acid/base pres. Have been <u>CHECKED</u> ?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	☒		
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Short Hold Time Analysis (48 hours or less)? Analysis:		☒		<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Time 5035A TC placed in Freezer or Short Holds To Lab			Time: _____			
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			☒
Custody Signatures Present?	☒		Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Containers Intact?:	☒		Headspace Wisconsin Sulfide?			☒
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Headspace in VOA Vials (>6mm):			☒
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Present?		☒	
			Trip Blank Custody Seals?:			

COMMENTS:

[illegible]

Container Codes

Glass			Plastic / Misc.		
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass
DG9H	40mL HCl amber vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass		

BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Ac plastic

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water
SL	Solid
NAL	Non-aqueous liquid
WP	Wipe