

April 16, 2020

Delivered via Email

Mr. Jeffery E. Mendenhall
South Carolina Department of Health and Environmental Control
Assessment Section, UST Management Division
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

**Subject: Lewis Drive – First Quarter 2020 Draft Data Transmittal
Plantation Pipe Line Company
Lewis Drive Remediation Site
Belton, South Carolina
Site ID #18693, “Kinder Morgan Belton Pipeline Release”**

Dear Mr. Mendenhall,

On behalf of Plantation Pipe Line Company (Plantation), and as agreed to in our November 1, 2018 meeting with South Carolina Department of Health and Environmental Control, Jacobs is sending this draft data transmittal for the groundwater and surface water sampling events conducted during the first quarter of 2020. The preliminary analytical laboratory data sheets are included with this submittal.

If you have specific questions about this data transmittal, please call Tom Wiley/Jacobs at (404) 751-5690, or Mr. Jerry Aycock/Plantation at (770) 751-4165.

Regards,

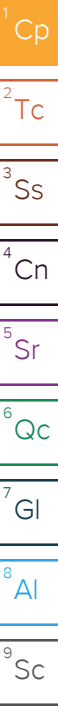


William M. Waldron, P.E.
Program Manager

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Mary Clair Lyons, Esq., Plantation (Digital, Mary_Lyons@kindermorgan.com)
Richard Morton, Esq., Womble Bond Dickinson, LLP (Digital, ric.morton@wbd-us.com)

Attachments:

Analytical Laboratory Data Sheets (January 8 - March 13, 2020)



Kinder Morgan- Atlanta, GA

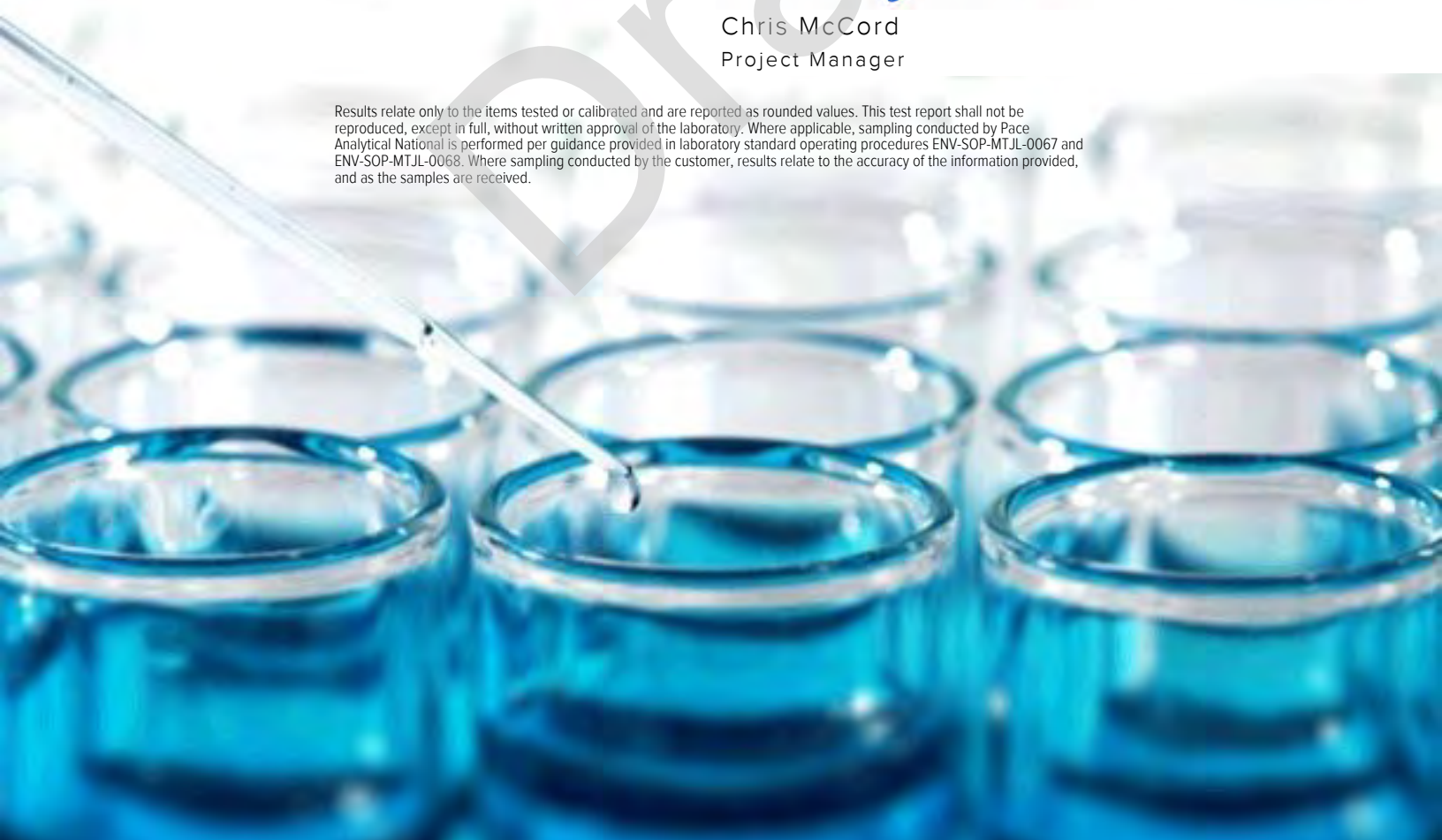
Sample Delivery Group: L1197690
Samples Received: 03/11/2020
Project Number: KMLDOM20.B.CS.GEN.LD
Description: Lewis Drive Groundwater
Site: LEWIS DRIVE
Report To: Bethany Garvey
Ten 10th Street NW
Suite 1400
Atlanta, GA 30309

Entire Report Reviewed By:



Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.





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¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc





All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Project Manager

Draft

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20000	1	03/13/2020 19:29	WG1442024

Sample Narrative:

L1197690-01 WG1442024: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	<u>T8</u>	20000	1	03/13/2020 19:29	WG1442024

Sample Narrative:

L1197690-01 WG1442024: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	ND		100	1	03/12/2020 03:34	WG1441975
Sulfate	ND		5000	1	03/12/2020 03:34	WG1441975

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	03/14/2020 12:12	WG1443765

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/12/2020 12:20	WG1442627
Toluene	ND		1.00	1	03/12/2020 12:20	WG1442627
Ethylbenzene	ND		1.00	1	03/12/2020 12:20	WG1442627
Total Xylenes	ND		3.00	1	03/12/2020 12:20	WG1442627
Methyl tert-butyl ether	ND		1.00	1	03/12/2020 12:20	WG1442627
Naphthalene	ND		5.00	1	03/12/2020 12:20	WG1442627
1,2-Dichloroethane	ND		1.00	1	03/12/2020 12:20	WG1442627
(S) Toluene-d8	98.4		80.0-120		03/12/2020 12:20	WG1442627
(S) 4-Bromofluorobenzene	98.7		77.0-126		03/12/2020 12:20	WG1442627
(S) 1,2-Dichloroethane-d4	108		70.0-130		03/12/2020 12:20	WG1442627

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20000	1	03/13/2020 19:37	WG1442024

Sample Narrative:

L1197690-02 WG1442024: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	<u>T8</u>	20000	1	03/13/2020 19:37	WG1442024

Sample Narrative:

L1197690-02 WG1442024: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	429		100	1	03/12/2020 03:46	WG1441975
Sulfate	13200		5000	1	03/12/2020 03:46	WG1441975

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	03/17/2020 17:14	WG1445731

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/12/2020 12:41	WG1442627
Toluene	ND		1.00	1	03/12/2020 12:41	WG1442627
Ethylbenzene	ND		1.00	1	03/12/2020 12:41	WG1442627
Total Xylenes	ND		3.00	1	03/12/2020 12:41	WG1442627
Methyl tert-butyl ether	ND		1.00	1	03/12/2020 12:41	WG1442627
Naphthalene	ND		5.00	1	03/12/2020 12:41	WG1442627
1,2-Dichloroethane	ND		1.00	1	03/12/2020 12:41	WG1442627
(S) Toluene-d8	101		80.0-120		03/12/2020 12:41	WG1442627
(S) 4-Bromofluorobenzene	103		77.0-126		03/12/2020 12:41	WG1442627
(S) 1,2-Dichloroethane-d4	105		70.0-130		03/12/2020 12:41	WG1442627

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/12/2020 13:01	WG1442627
Toluene	ND		1.00	1	03/12/2020 13:01	WG1442627
Ethylbenzene	ND		1.00	1	03/12/2020 13:01	WG1442627
Total Xylenes	ND		3.00	1	03/12/2020 13:01	WG1442627
Methyl tert-butyl ether	ND		1.00	1	03/12/2020 13:01	WG1442627
Naphthalene	ND		5.00	1	03/12/2020 13:01	WG1442627
1,2-Dichloroethane	ND		1.00	1	03/12/2020 13:01	WG1442627
(S) Toluene-d8	96.4		80.0-120		03/12/2020 13:01	WG1442627
(S) 4-Bromofluorobenzene	103		77.0-126		03/12/2020 13:01	WG1442627
(S) 1,2-Dichloroethane-d4	104		70.0-130		03/12/2020 13:01	WG1442627

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20000	1	03/13/2020 19:43	WG1442024

Sample Narrative:

L1197690-04 WG1442024: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	<u>T8</u>	20000	1	03/13/2020 19:43	WG1442024

Sample Narrative:

L1197690-04 WG1442024: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	776		100	1	03/12/2020 03:59	WG1441975
Sulfate	ND		5000	1	03/12/2020 03:59	WG1441975

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	03/14/2020 12:14	WG1443765

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/12/2020 13:21	WG1442627
Toluene	ND		1.00	1	03/12/2020 13:21	WG1442627
Ethylbenzene	ND		1.00	1	03/12/2020 13:21	WG1442627
Total Xylenes	ND		3.00	1	03/12/2020 13:21	WG1442627
Methyl tert-butyl ether	ND		1.00	1	03/12/2020 13:21	WG1442627
Naphthalene	ND		5.00	1	03/12/2020 13:21	WG1442627
1,2-Dichloroethane	ND		1.00	1	03/12/2020 13:21	WG1442627
(S) Toluene-d8	101		80.0-120		03/12/2020 13:21	WG1442627
(S) 4-Bromofluorobenzene	101		77.0-126		03/12/2020 13:21	WG1442627
(S) 1,2-Dichloroethane-d4	107		70.0-130		03/12/2020 13:21	WG1442627

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20000	1	03/13/2020 20:00	WG1442024

Sample Narrative:

L1197690-05 WG1442024: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	<u>T8</u>	20000	1	03/13/2020 20:00	WG1442024

Sample Narrative:

L1197690-05 WG1442024: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	336		100	1	03/12/2020 04:37	WG1441975
Sulfate	ND		5000	1	03/12/2020 04:37	WG1441975

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	03/14/2020 12:16	WG1443765

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/12/2020 13:42	WG1442627
Toluene	ND		1.00	1	03/12/2020 13:42	WG1442627
Ethylbenzene	ND		1.00	1	03/12/2020 13:42	WG1442627
Total Xylenes	ND		3.00	1	03/12/2020 13:42	WG1442627
Methyl tert-butyl ether	ND		1.00	1	03/12/2020 13:42	WG1442627
Naphthalene	ND		5.00	1	03/12/2020 13:42	WG1442627
1,2-Dichloroethane	ND		1.00	1	03/12/2020 13:42	WG1442627
(S) Toluene-d8	98.6		80.0-120		03/12/2020 13:42	WG1442627
(S) 4-Bromofluorobenzene	98.1		77.0-126		03/12/2020 13:42	WG1442627
(S) 1,2-Dichloroethane-d4	103		70.0-130		03/12/2020 13:42	WG1442627

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	1.12		1.00	1	03/12/2020 14:02	WG1442627
Toluene	ND		1.00	1	03/12/2020 14:02	WG1442627
Ethylbenzene	ND		1.00	1	03/12/2020 14:02	WG1442627
Total Xylenes	ND		3.00	1	03/12/2020 14:02	WG1442627
Methyl tert-butyl ether	ND		1.00	1	03/12/2020 14:02	WG1442627
Naphthalene	ND		5.00	1	03/12/2020 14:02	WG1442627
1,2-Dichloroethane	ND		1.00	1	03/12/2020 14:02	WG1442627
(S) Toluene-d8	99.6		80.0-120		03/12/2020 14:02	WG1442627
(S) 4-Bromofluorobenzene	103		77.0-126		03/12/2020 14:02	WG1442627
(S) 1,2-Dichloroethane-d4	107		70.0-130		03/12/2020 14:02	WG1442627

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20000	1	03/13/2020 20:07	WG1442024

Sample Narrative:

L1197690-07 WG1442024: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	<u>T8</u>	20000	1	03/13/2020 20:07	WG1442024

Sample Narrative:

L1197690-07 WG1442024: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	168		100	1	03/12/2020 04:50	WG1441975
Sulfate	ND		5000	1	03/12/2020 04:50	WG1441975

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	03/14/2020 12:19	WG1443765

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/12/2020 14:23	WG1442627
Toluene	ND		1.00	1	03/12/2020 14:23	WG1442627
Ethylbenzene	ND		1.00	1	03/12/2020 14:23	WG1442627
Total Xylenes	ND		3.00	1	03/12/2020 14:23	WG1442627
Methyl tert-butyl ether	ND		1.00	1	03/12/2020 14:23	WG1442627
Naphthalene	ND		5.00	1	03/12/2020 14:23	WG1442627
1,2-Dichloroethane	ND		1.00	1	03/12/2020 14:23	WG1442627
(S) Toluene-d8	99.0		80.0-120		03/12/2020 14:23	WG1442627
(S) 4-Bromofluorobenzene	101		77.0-126		03/12/2020 14:23	WG1442627
(S) 1,2-Dichloroethane-d4	107		70.0-130		03/12/2020 14:23	WG1442627

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/12/2020 14:43	WG1442627
Toluene	ND		1.00	1	03/12/2020 14:43	WG1442627
Ethylbenzene	ND		1.00	1	03/12/2020 14:43	WG1442627
Total Xylenes	ND		3.00	1	03/12/2020 14:43	WG1442627
Methyl tert-butyl ether	ND		1.00	1	03/12/2020 14:43	WG1442627
Naphthalene	ND		5.00	1	03/12/2020 14:43	WG1442627
1,2-Dichloroethane	ND		1.00	1	03/12/2020 14:43	WG1442627
(S) Toluene-d8	100		80.0-120		03/12/2020 14:43	WG1442627
(S) 4-Bromofluorobenzene	101		77.0-126		03/12/2020 14:43	WG1442627
(S) 1,2-Dichloroethane-d4	104		70.0-130		03/12/2020 14:43	WG1442627

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/12/2020 15:03	WG1442627
Toluene	ND		1.00	1	03/12/2020 15:03	WG1442627
Ethylbenzene	ND		1.00	1	03/12/2020 15:03	WG1442627
Total Xylenes	ND		3.00	1	03/12/2020 15:03	WG1442627
Methyl tert-butyl ether	ND		1.00	1	03/12/2020 15:03	WG1442627
Naphthalene	ND		5.00	1	03/12/2020 15:03	WG1442627
1,2-Dichloroethane	ND		1.00	1	03/12/2020 15:03	WG1442627
(S) Toluene-d8	99.2		80.0-120		03/12/2020 15:03	WG1442627
(S) 4-Bromofluorobenzene	102		77.0-126		03/12/2020 15:03	WG1442627
(S) 1,2-Dichloroethane-d4	108		70.0-130		03/12/2020 15:03	WG1442627

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	28000	<u>B</u>	20000	1	03/13/2020 20:14	WG1442024

Sample Narrative:

L1197690-10 WG1442024: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	<u>T8</u>	20000	1	03/13/2020 20:14	WG1442024

Sample Narrative:

L1197690-10 WG1442024: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	ND		100	1	03/12/2020 05:03	WG1441975
Sulfate	ND		5000	1	03/12/2020 05:03	WG1441975

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Methane	16.9		10.0	1	03/14/2020 12:21	WG1443765

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	195		1.00	1	03/12/2020 15:24	WG1442627
Toluene	53.0		1.00	1	03/12/2020 15:24	WG1442627
Ethylbenzene	2.92		1.00	1	03/12/2020 15:24	WG1442627
Total Xylenes	102		3.00	1	03/12/2020 15:24	WG1442627
Methyl tert-butyl ether	29.9		1.00	1	03/12/2020 15:24	WG1442627
Naphthalene	ND		5.00	1	03/12/2020 15:24	WG1442627
1,2-Dichloroethane	ND		1.00	1	03/12/2020 15:24	WG1442627
(S) Toluene-d8	95.0		80.0-120		03/12/2020 15:24	WG1442627
(S) 4-Bromofluorobenzene	100		77.0-126		03/12/2020 15:24	WG1442627
(S) 1,2-Dichloroethane-d4	110		70.0-130		03/12/2020 15:24	WG1442627

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/12/2020 15:44	WG1442627
Toluene	ND		1.00	1	03/12/2020 15:44	WG1442627
Ethylbenzene	ND		1.00	1	03/12/2020 15:44	WG1442627
Total Xylenes	ND		3.00	1	03/12/2020 15:44	WG1442627
Methyl tert-butyl ether	124		1.00	1	03/12/2020 15:44	WG1442627
Naphthalene	ND		5.00	1	03/12/2020 15:44	WG1442627
1,2-Dichloroethane	ND		1.00	1	03/12/2020 15:44	WG1442627
(S) Toluene-d8	103		80.0-120		03/12/2020 15:44	WG1442627
(S) 4-Bromofluorobenzene	101		77.0-126		03/12/2020 15:44	WG1442627
(S) 1,2-Dichloroethane-d4	107		70.0-130		03/12/2020 15:44	WG1442627

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	1.54		1.00	1	03/12/2020 16:05	WG1442627
Toluene	ND		1.00	1	03/12/2020 16:05	WG1442627
Ethylbenzene	ND		1.00	1	03/12/2020 16:05	WG1442627
Total Xylenes	3.06		3.00	1	03/12/2020 16:05	WG1442627
Methyl tert-butyl ether	167		1.00	1	03/12/2020 16:05	WG1442627
Naphthalene	ND		5.00	1	03/12/2020 16:05	WG1442627
1,2-Dichloroethane	ND		1.00	1	03/12/2020 16:05	WG1442627
(S) Toluene-d8	102		80.0-120		03/12/2020 16:05	WG1442627
(S) 4-Bromofluorobenzene	107		77.0-126		03/12/2020 16:05	WG1442627
(S) 1,2-Dichloroethane-d4	107		70.0-130		03/12/2020 16:05	WG1442627

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20000	1	03/13/2020 20:22	WG1442024

Sample Narrative:

L1197690-13 WG1442024: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	<u>T8</u>	20000	1	03/13/2020 20:22	WG1442024

Sample Narrative:

L1197690-13 WG1442024: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	911		100	1	03/12/2020 05:16	WG1441975
Sulfate	9440		5000	1	03/12/2020 05:16	WG1441975

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	03/14/2020 12:25	WG1443765

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/12/2020 16:25	WG1442627
Toluene	ND		1.00	1	03/12/2020 16:25	WG1442627
Ethylbenzene	ND		1.00	1	03/12/2020 16:25	WG1442627
Total Xylenes	ND		3.00	1	03/12/2020 16:25	WG1442627
Methyl tert-butyl ether	4.19		1.00	1	03/12/2020 16:25	WG1442627
Naphthalene	ND		5.00	1	03/12/2020 16:25	WG1442627
1,2-Dichloroethane	ND		1.00	1	03/12/2020 16:25	WG1442627
(S) Toluene-d8	95.9		80.0-120		03/12/2020 16:25	WG1442627
(S) 4-Bromofluorobenzene	94.9		77.0-126		03/12/2020 16:25	WG1442627
(S) 1,2-Dichloroethane-d4	101		70.0-130		03/12/2020 16:25	WG1442627

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/12/2020 16:45	WG1442627
Toluene	ND		1.00	1	03/12/2020 16:45	WG1442627
Ethylbenzene	ND		1.00	1	03/12/2020 16:45	WG1442627
Total Xylenes	ND		3.00	1	03/12/2020 16:45	WG1442627
Methyl tert-butyl ether	ND		1.00	1	03/12/2020 16:45	WG1442627
Naphthalene	ND		5.00	1	03/12/2020 16:45	WG1442627
1,2-Dichloroethane	ND		1.00	1	03/12/2020 16:45	WG1442627
(S) Toluene-d8	102		80.0-120		03/12/2020 16:45	WG1442627
(S) 4-Bromofluorobenzene	102		77.0-126		03/12/2020 16:45	WG1442627
(S) 1,2-Dichloroethane-d4	104		70.0-130		03/12/2020 16:45	WG1442627

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/12/2020 17:06	WG1442627
Toluene	ND		1.00	1	03/12/2020 17:06	WG1442627
Ethylbenzene	ND		1.00	1	03/12/2020 17:06	WG1442627
Total Xylenes	ND		3.00	1	03/12/2020 17:06	WG1442627
Methyl tert-butyl ether	ND		1.00	1	03/12/2020 17:06	WG1442627
Naphthalene	ND		5.00	1	03/12/2020 17:06	WG1442627
1,2-Dichloroethane	ND		1.00	1	03/12/2020 17:06	WG1442627
(S) Toluene-d8	98.9		80.0-120		03/12/2020 17:06	WG1442627
(S) 4-Bromofluorobenzene	99.6		77.0-126		03/12/2020 17:06	WG1442627
(S) 1,2-Dichloroethane-d4	107		70.0-130		03/12/2020 17:06	WG1442627

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Sulfate	27500		5000	1	03/12/2020 05:28	WG1441975

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/14/2020 13:15	WG1444067
Toluene	ND		1.00	1	03/14/2020 13:15	WG1444067
Ethylbenzene	ND		1.00	1	03/14/2020 13:15	WG1444067
Total Xylenes	ND		3.00	1	03/14/2020 13:15	WG1444067
Methyl tert-butyl ether	2.85		1.00	1	03/14/2020 13:15	WG1444067
Naphthalene	ND	<u>JO</u>	5.00	1	03/14/2020 13:15	WG1444067
1,2-Dichloroethane	ND		1.00	1	03/14/2020 13:15	WG1444067
(S) Toluene-d8	97.4		80.0-120		03/14/2020 13:15	WG1444067
(S) 4-Bromofluorobenzene	100		77.0-126		03/14/2020 13:15	WG1444067
(S) 1,2-Dichloroethane-d4	102		70.0-130		03/14/2020 13:15	WG1444067

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Sulfate	76600		5000	1	03/12/2020 05:41	WG1441975

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	411		10.0	10	03/18/2020 00:31	WG1445837
Toluene	2.68		1.00	1	03/14/2020 13:35	WG1444067
Ethylbenzene	1.37		1.00	1	03/14/2020 13:35	WG1444067
Total Xylenes	172		3.00	1	03/14/2020 13:35	WG1444067
Methyl tert-butyl ether	144		1.00	1	03/14/2020 13:35	WG1444067
Naphthalene	ND	<u>JO</u>	5.00	1	03/14/2020 13:35	WG1444067
1,2-Dichloroethane	ND		1.00	1	03/14/2020 13:35	WG1444067
(S) Toluene-d8	99.8		80.0-120		03/14/2020 13:35	WG1444067
(S) Toluene-d8	116		80.0-120		03/18/2020 00:31	WG1445837
(S) 4-Bromofluorobenzene	97.8		77.0-126		03/14/2020 13:35	WG1444067
(S) 4-Bromofluorobenzene	105		77.0-126		03/18/2020 00:31	WG1445837
(S) 1,2-Dichloroethane-d4	102		70.0-130		03/14/2020 13:35	WG1444067
(S) 1,2-Dichloroethane-d4	102		70.0-130		03/18/2020 00:31	WG1445837

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/12/2020 11:39	WG1442627
Toluene	ND		1.00	1	03/12/2020 11:39	WG1442627
Ethylbenzene	ND		1.00	1	03/12/2020 11:39	WG1442627
Total Xylenes	ND		3.00	1	03/12/2020 11:39	WG1442627
Methyl tert-butyl ether	ND		1.00	1	03/12/2020 11:39	WG1442627
Naphthalene	ND		5.00	1	03/12/2020 11:39	WG1442627
1,2-Dichloroethane	ND		1.00	1	03/12/2020 11:39	WG1442627
(S) Toluene-d8	97.6		80.0-120		03/12/2020 11:39	WG1442627
(S) 4-Bromofluorobenzene	107		77.0-126		03/12/2020 11:39	WG1442627
(S) 1,2-Dichloroethane-d4	110		70.0-130		03/12/2020 11:39	WG1442627

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/12/2020 12:00	WG1442627
Toluene	ND		1.00	1	03/12/2020 12:00	WG1442627
Ethylbenzene	ND		1.00	1	03/12/2020 12:00	WG1442627
Total Xylenes	ND		3.00	1	03/12/2020 12:00	WG1442627
Methyl tert-butyl ether	ND		1.00	1	03/12/2020 12:00	WG1442627
Naphthalene	ND		5.00	1	03/12/2020 12:00	WG1442627
1,2-Dichloroethane	ND		1.00	1	03/12/2020 12:00	WG1442627
(S) Toluene-d8	98.1		80.0-120		03/12/2020 12:00	WG1442627
(S) 4-Bromofluorobenzene	103		77.0-126		03/12/2020 12:00	WG1442627
(S) 1,2-Dichloroethane-d4	109		70.0-130		03/12/2020 12:00	WG1442627

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/18/2020 21:06	WG1446443
Toluene	ND		1.00	1	03/14/2020 13:55	WG1444067
Ethylbenzene	ND		1.00	1	03/14/2020 13:55	WG1444067
Total Xylenes	ND		3.00	1	03/14/2020 13:55	WG1444067
Methyl tert-butyl ether	ND		1.00	1	03/14/2020 13:55	WG1444067
Naphthalene	ND	<u>JO</u>	5.00	1	03/14/2020 13:55	WG1444067
1,2-Dichloroethane	ND		1.00	1	03/14/2020 13:55	WG1444067
(S) Toluene-d8	100		80.0-120		03/14/2020 13:55	WG1444067
(S) Toluene-d8	107		80.0-120		03/18/2020 21:06	WG1446443
(S) 4-Bromofluorobenzene	99.6		77.0-126		03/14/2020 13:55	WG1444067
(S) 4-Bromofluorobenzene	87.4		77.0-126		03/18/2020 21:06	WG1446443
(S) 1,2-Dichloroethane-d4	103		70.0-130		03/14/2020 13:55	WG1444067
(S) 1,2-Dichloroethane-d4	108		70.0-130		03/18/2020 21:06	WG1446443

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/14/2020 14:16	WG1444067
Toluene	ND		1.00	1	03/14/2020 14:16	WG1444067
Ethylbenzene	ND		1.00	1	03/14/2020 14:16	WG1444067
Total Xylenes	ND		3.00	1	03/14/2020 14:16	WG1444067
Methyl tert-butyl ether	ND		1.00	1	03/14/2020 14:16	WG1444067
Naphthalene	ND	<u>JO</u>	5.00	1	03/14/2020 14:16	WG1444067
1,2-Dichloroethane	ND		1.00	1	03/14/2020 14:16	WG1444067
(S) Toluene-d8	98.6		80.0-120		03/14/2020 14:16	WG1444067
(S) 4-Bromofluorobenzene	95.9		77.0-126		03/14/2020 14:16	WG1444067
(S) 1,2-Dichloroethane-d4	103		70.0-130		03/14/2020 14:16	WG1444067

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft

Kinder Morgan- Atlanta, GA
 Ten 10th Street NW
 Suite 1400
 Atlanta GA 30309

Billing Information:
 Accounts Payable
 1000 Windward Concourse
 Ste 450
 Alpharetta, GA 30005

Report to:
Bethany Garvey

Email To:
 bethany.garvey@jacobs.com;tom.wiley@jacobs.com

Project Description: **Lewis Drive Groundwater**

City/State Collected: **BELTON, SC**

Please Circle:
 PT MT CT ET

Phone: **770-604-9182**
 Fax:

Client Project #
**K.M.LDOMR20
 B.CS.GEN.LDOMR.GW**

Lab Project #
KINCH2MGA-LEWIS12

Collected by (print):
MELISSA WARREN

Site/Facility ID #
LEWIS DRIVE

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #

Immediately Packed on Ice N Y

Date Results Needed

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
-----------	-----------	----------	-------	------	------	--------------

MW-12-031020	GRAB	GW	NA	03/10/20	0935	7
MW-28-031020		GW			1000	3
MW-49-031020		GW			1020	3
MW-35-031020		GW			1035	7
MW-25-031020		GW			1050	7
MW-25B-031020		GW			1100	3
MW-42-031020		GW			1230	7
MW-41-031020		GW			1245	3
MW-41-D-031020		GW			1250	3
MW-40-031020		GW			1300	7

Analysis / Container / Preservative	Pres Chk
NITRATE,SULFATE 125mlHDPE-NoPres	<input checked="" type="checkbox"/>
ALK,CO2 125mlHDPE-NoPres	<input checked="" type="checkbox"/>
Methane - RSK175 40mlAmb HCl	<input checked="" type="checkbox"/>
SULFATE 125mlHDPE-NoPres	<input checked="" type="checkbox"/>
V8260BTEXMNSC 40mlAmb-HCl	<input checked="" type="checkbox"/>
V8260BTEXMNSC-TB 40mlAmb-HCl-Bik	<input checked="" type="checkbox"/>

Chain of Custody Page 1 of 3

 Pace Analytical
 National Center for Testing & Innovation

12065 Lebanon Rd
 Mount Juliet, TN 37122
 Phone: 615-758-5858
 Phone: 800-767-5859
 Fax: 615-758-5859



SDG # **L1197650**

Table **F212**

Acctnum: **KINCH2MGA**

Template: **T155769**

Prelogin: **P758897**

PM: **526 - Chris McCord**

PB: **3-4-2020**

Shipped Via: **FedEx Ground**

Remarks	Sample # (lab only)
	-01
	-02
	-03
	-04
	-05
	-06
	-07
	-08
	-09
	-10

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: **V8260BTEXMNSC=BTEX, MTBE, Naphthalene, and 1,2-DCA.**

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
 UPS FedEx Courier

Tracking # **1663 5752 7666**

Sample Receipt Checklist	
COC Seal Present/Intact:	NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
If Applicable	
VOA Zero Headspace:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Preservation Correct/Checked:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
RAD Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Relinquished by: (Signature)

Date: **03/10/20**

Time: **1830**

Received by: (Signature)

Trip Blank Received: Yes/No
 HCL/MeOH
 TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: **12.0°C**
0.7-4-03
82

If preservation required by Login: Date/Time

Relinquished by: (Signature)



Date:

Time:

Received for Lab by: (Signature)

Date: **3/11/20**
 Time: **08:30**

Hold: Condition: **NCF OK**

Kinder Morgan- Atlanta, GA		Billing Information:		Analysis / Container / Preservative					Chain of Custody Page 2 of 3				
Ten 10th Street NW Suite 1400 Atlanta GA 30309		Accounts Payable 1000 Windward Concourse Ste 450 Alpharetta, GA 30005		Pres Chk	X	Y	Y	Y	Y	 Pace Analytical® National Center for Testing & Innovation			
Report to: Bethany Garvey		Email To: bethany.garvey@jacobs.com;tom.wiley@jacobs.com		12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859				SDG # L1197690					
Project Description: Lewis Drive Groundwater		City/State Collected: BELTON, SC	Please Circle: PT MT CT ET		** NITRATE,SULFATE** 125mlHDPE-NoPres		ALK,CO2 125mlHDPE-NoPres		Methane - RSK175 40mlAmb HCl				
Phone: 770-604-9182	Client Project # KMLDOMZO	Lab Project # KINCH2MGA-LEWIS12		V8260BTEXMNSC 40mlAmb-HCl		SULFATE 125mlHDPE-NoPres		V8260BTEXMNSC-TB 40mlAmb-HCl-BIK		Table #			
Fax:	Site/Facility ID # LEWIS DRIVE	P.O. #		V8260BTEXMNSC-TB 40mlAmb-HCl-BIK		V8260BTEXMNSC-TB 40mlAmb-HCl-BIK		V8260BTEXMNSC-TB 40mlAmb-HCl-BIK		Acctnum: KINCH2MGA			
Collected by (print): MELISSA WARRER	Rush? (Lab MUST Be Notified)		Quote #		V8260BTEXMNSC-TB 40mlAmb-HCl-BIK		V8260BTEXMNSC-TB 40mlAmb-HCl-BIK		V8260BTEXMNSC-TB 40mlAmb-HCl-BIK		Template: T155769		
Collected by (signature):	Same Day <input type="checkbox"/> Five Day <input type="checkbox"/>		Date Results Needed		V8260BTEXMNSC-TB 40mlAmb-HCl-BIK		V8260BTEXMNSC-TB 40mlAmb-HCl-BIK		V8260BTEXMNSC-TB 40mlAmb-HCl-BIK		Prelogin: P758897		
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>	Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/>		Date Results Needed		V8260BTEXMNSC-TB 40mlAmb-HCl-BIK		V8260BTEXMNSC-TB 40mlAmb-HCl-BIK		V8260BTEXMNSC-TB 40mlAmb-HCl-BIK		PM: 526 - Chris McCord		
Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/>		Three Day <input type="checkbox"/>		Date Results Needed		V8260BTEXMNSC-TB 40mlAmb-HCl-BIK		V8260BTEXMNSC-TB 40mlAmb-HCl-BIK		V8260BTEXMNSC-TB 40mlAmb-HCl-BIK		PB:	
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Shipped Via: FedEx Ground		Remarks		Sample # (lab only)	
MW-39-031020	GRAB	GW	NA	03/10/20	1315	3		Remarks		Sample # (lab only)			
MW-34-031020		GW			1325	3		Remarks		Sample # (lab only)			
MW-15-031020		GW			1335	3		Remarks		Sample # (lab only)			
MW-43-031020		GW			1420	3		Remarks		Sample # (lab only)			
MW-43B-031020		GW			1425	3		Remarks		Sample # (lab only)			
MW-37-031020		GW			1615	4		Remarks		Sample # (lab only)			
MW-38-031020		GW			1640	4		Remarks		Sample # (lab only)			
FB01-031020		GW			1720	3		Remarks		Sample # (lab only)			
TB01-031020		GW				1		Remarks		Sample # (lab only)			
MW-24-031020		GW			1400	3		Remarks		Sample # (lab only)			
* Matrix:		Remarks: V8260BTEXMNSC=BTEX, MTBE, Naphthalene, and 1,2-DCA.		pH _____ Temp _____		Flow _____ Other _____		Sample Receipt Checklist		COC Seal Present/Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N			
SS - Soil AIR - Air F - Filter								COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N			
GW - Groundwater B - Bioassay								Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N			
WW - WasteWater								If Applicable		VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N			
DW - Drinking Water								Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N			
OT - Other _____		Samples returned via:		Tracking #				Trip Blank Received: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If preservation required by Login: Date/Time			
		___ UPS ___ FedEx ___ Courier _____		1663 5752 7666				HCL / MeOH TBR		Date/Time			
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Temp: _____ °C		Bottles Received: 82		Date/Time			
		03/10/20	1830			03/11/20				Date/Time			
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature)		Date:		Time:		Hold:			
						3/11/20		08:30		Condition: NCF <input checked="" type="checkbox"/> OK			

Kinder Morgan- Atlanta, GA
 Ten 10th Street NW
 Suite 1400
 Atlanta GA 30309

Billing Information:
 Accounts Payable
 1000 Windward Concourse
 Ste 450
 Alpharetta, GA 30005

Report to:
Bethany Garvey

Email To:
 bethany.garvey@jacobs.com;tom.wiley@jacobs.co

Project Description: **Lewis Drive Groundwater**

City/State Collected: **BECTON, SC**

Please Circle:
 PT MT CT ET

Phone: **770-604-9182**
 Fax:

Client Project #
**KMLD00#20
 B. CS. GEN. LDOMR**

Lab Project #
KINCH2MGA-LEWIS12

Collected by (print):
MEISSA WARNER

Site/Facility ID #
LEWIS DRIVE

P.O. #

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)
 ___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day

Quote #
 Date Results Needed

Immediately Packed on Ice N ___ Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
-----------	-----------	----------	-------	------	------	--------------

MW - 24B-031020	GRAB	GW	NA	03/10/20	1355	3
		GW				
		GW				
		GW				
		GW				
		GW				
		GW				
		GW				
		GW				
		GW				

Analysis / Container / Preservative						
** NITRATE,SULFATE**	125mlHDPE-NoPres					
ALK,CO2	125mlHDPE-NoPres					
Methane	RSK175 40mlAmb HCl					
SULFATE	125mlHDPE-NoPres					
V8260BTEXMNSC	40mlAmb-HCl					
V8260BTEXMNSC-TB	40mlAmb-HCl-Bik					

Chain of Custody Page 3 of 3



12065 Lebanon Rd
 Mount Juliet, TN 37122
 Phone: 615-758-5858
 Phone: 800-767-5859
 Fax: 615-758-5859



SDG # **L1197690**

Table #

Acctnum: **KINCH2MGA**
 Template: **T155769**
 Prelogin: **P758897**
 PM: 526 - Chris McCord
 PB:

Shipped Via: **FedEx Ground**

Remarks	Sample # (lab only)
	-21

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: **V8260BTEXMNSC=BTEX, MTBE, Naphthalene, and 1,2-DCA.**

pH ___ Temp ___
 Flow ___ Other ___

Samples returned via:
 ___ UPS ___ FedEx ___ Courier

Tracking # **11663 5752 7666**

Sample Receipt Checklist	
COC Seal Present/Intact: ___ NP	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate: ___	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact: ___	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used: ___	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume sent: ___	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
If Applicable	
VOA Zero Headspace: ___	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Preservation Correct/Checked: ___	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
RAD Screen <0.5 mR/hr: ___	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Relinquished by: (Signature)
[Signature]

Date: **03/10/20**
 Time: **1830**

Received by: (Signature)
[Signature]

Trip Blank Received: Yes / No
 HCl / MeOH
 TBR

Relinquished by: (Signature)
[Signature]

Date: **03/10/20**
 Time: **1830**

Received by: (Signature)
[Signature]

Temp: **13.0°C**
 Bottles Received: **24/3 82**

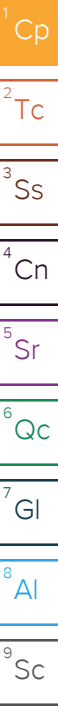
Relinquished by: (Signature)
[Signature]

Date: **3/11/20**
 Time: **08:30**

Received for lab by: (Signature)
[Signature]

Hold:

Condition:
 NCF OK



Kinder Morgan- Atlanta, GA

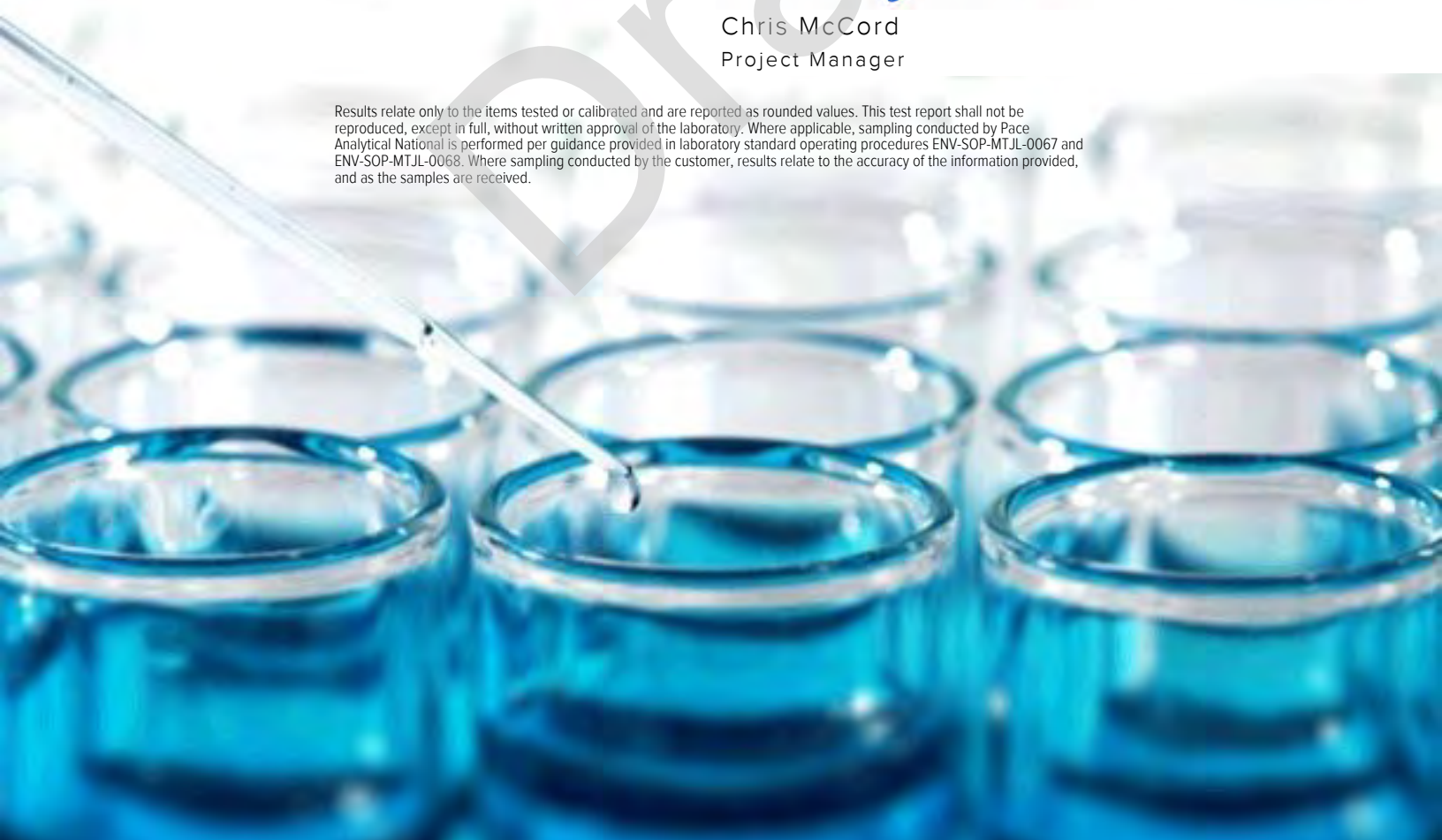
Sample Delivery Group: L1198496
Samples Received: 03/12/2020
Project Number: KMLDOM20 B.CS.GEN.LD
Description: Lewis Drive Groundwater
Site: LEWIS DRIVE
Report To: Bethany Garvey
Ten 10th Street NW
Suite 1400
Atlanta, GA 30309

Entire Report Reviewed By:



Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.





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1 Cp
2 Tc
3 Ss
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8 Al
9 Sc

Draft



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Project Manager

Draft

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	349		20.0	20	03/14/2020 14:36	WG1444067
Toluene	ND		20.0	20	03/14/2020 14:36	WG1444067
Ethylbenzene	ND		20.0	20	03/14/2020 14:36	WG1444067
Total Xylenes	153		3.00	20	03/14/2020 14:36	WG1444067
Methyl tert-butyl ether	41.0		20.0	20	03/14/2020 14:36	WG1444067
Naphthalene	ND	<u>JO</u>	100	20	03/14/2020 14:36	WG1444067
1,2-Dichloroethane	ND		20.0	20	03/14/2020 14:36	WG1444067
(S) Toluene-d8	97.3		80.0-120		03/14/2020 14:36	WG1444067
(S) 4-Bromofluorobenzene	95.8		77.0-126		03/14/2020 14:36	WG1444067
(S) 1,2-Dichloroethane-d4	107		70.0-130		03/14/2020 14:36	WG1444067

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	343		20.0	20	03/14/2020 14:57	WG1444067
Toluene	ND		20.0	20	03/14/2020 14:57	WG1444067
Ethylbenzene	ND		20.0	20	03/14/2020 14:57	WG1444067
Total Xylenes	138		3.00	20	03/14/2020 14:57	WG1444067
Methyl tert-butyl ether	40.9		20.0	20	03/14/2020 14:57	WG1444067
Naphthalene	ND	<u>JO</u>	100	20	03/14/2020 14:57	WG1444067
1,2-Dichloroethane	ND		20.0	20	03/14/2020 14:57	WG1444067
(S) Toluene-d8	97.1		80.0-120		03/14/2020 14:57	WG1444067
(S) 4-Bromofluorobenzene	95.8		77.0-126		03/14/2020 14:57	WG1444067
(S) 1,2-Dichloroethane-d4	105		70.0-130		03/14/2020 14:57	WG1444067

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/14/2020 15:17	WG1444067
Toluene	ND		1.00	1	03/14/2020 15:17	WG1444067
Ethylbenzene	ND		1.00	1	03/14/2020 15:17	WG1444067
Total Xylenes	ND		3.00	1	03/14/2020 15:17	WG1444067
Methyl tert-butyl ether	1.15		1.00	1	03/14/2020 15:17	WG1444067
Naphthalene	ND	<u>JO</u>	5.00	1	03/14/2020 15:17	WG1444067
1,2-Dichloroethane	ND		1.00	1	03/14/2020 15:17	WG1444067
(S) Toluene-d8	101		80.0-120		03/14/2020 15:17	WG1444067
(S) 4-Bromofluorobenzene	101		77.0-126		03/14/2020 15:17	WG1444067
(S) 1,2-Dichloroethane-d4	104		70.0-130		03/14/2020 15:17	WG1444067

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	62.3		5.00	5	03/23/2020 11:43	WG1448737
Toluene	464		5.00	5	03/23/2020 11:43	WG1448737
Ethylbenzene	76.0		5.00	5	03/23/2020 11:43	WG1448737
Total Xylenes	1310		15.0	5	03/23/2020 11:43	WG1448737
Methyl tert-butyl ether	ND		5.00	5	03/23/2020 11:43	WG1448737
Naphthalene	40.9		25.0	5	03/23/2020 11:43	WG1448737
1,2-Dichloroethane	ND		5.00	5	03/23/2020 11:43	WG1448737
(S) Toluene-d8	105		80.0-120		03/23/2020 11:43	WG1448737
(S) 4-Bromofluorobenzene	111		77.0-126		03/23/2020 11:43	WG1448737
(S) 1,2-Dichloroethane-d4	107		70.0-130		03/23/2020 11:43	WG1448737

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
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- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	4380		100	100	03/14/2020 15:57	WG1444067
Toluene	1620		100	100	03/14/2020 15:57	WG1444067
Ethylbenzene	211		100	100	03/14/2020 15:57	WG1444067
Total Xylenes	2080		3.00	100	03/14/2020 15:57	WG1444067
Methyl tert-butyl ether	260		100	100	03/14/2020 15:57	WG1444067
Naphthalene	ND	<u>JO</u>	500	100	03/14/2020 15:57	WG1444067
1,2-Dichloroethane	ND		100	100	03/14/2020 15:57	WG1444067
(S) Toluene-d8	95.6		80.0-120		03/14/2020 15:57	WG1444067
(S) 4-Bromofluorobenzene	96.7		77.0-126		03/14/2020 15:57	WG1444067
(S) 1,2-Dichloroethane-d4	104		70.0-130		03/14/2020 15:57	WG1444067

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/14/2020 16:17	WG1444067
Toluene	ND		1.00	1	03/14/2020 16:17	WG1444067
Ethylbenzene	ND		1.00	1	03/14/2020 16:17	WG1444067
Total Xylenes	ND		3.00	1	03/14/2020 16:17	WG1444067
Methyl tert-butyl ether	ND		1.00	1	03/14/2020 16:17	WG1444067
Naphthalene	ND	<u>JO</u>	5.00	1	03/14/2020 16:17	WG1444067
1,2-Dichloroethane	ND		1.00	1	03/14/2020 16:17	WG1444067
(S) Toluene-d8	99.1		80.0-120		03/14/2020 16:17	WG1444067
(S) 4-Bromofluorobenzene	101		77.0-126		03/14/2020 16:17	WG1444067
(S) 1,2-Dichloroethane-d4	106		70.0-130		03/14/2020 16:17	WG1444067

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	12.8		1.00	1	03/14/2020 16:38	WG1444067
Toluene	ND		1.00	1	03/14/2020 16:38	WG1444067
Ethylbenzene	ND		1.00	1	03/14/2020 16:38	WG1444067
Total Xylenes	3.38		3.00	1	03/14/2020 16:38	WG1444067
Methyl tert-butyl ether	11.7		1.00	1	03/14/2020 16:38	WG1444067
Naphthalene	ND	<u>JO</u>	5.00	1	03/14/2020 16:38	WG1444067
1,2-Dichloroethane	ND		1.00	1	03/14/2020 16:38	WG1444067
(S) Toluene-d8	98.9		80.0-120		03/14/2020 16:38	WG1444067
(S) 4-Bromofluorobenzene	99.3		77.0-126		03/14/2020 16:38	WG1444067
(S) 1,2-Dichloroethane-d4	102		70.0-130		03/14/2020 16:38	WG1444067

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	4690		500	500	03/18/2020 01:12	WG1445837
Toluene	8870		500	500	03/18/2020 01:12	WG1445837
Ethylbenzene	217		20.0	20	03/14/2020 16:58	WG1444067
Total Xylenes	1530		3.00	20	03/14/2020 16:58	WG1444067
Methyl tert-butyl ether	ND		20.0	20	03/14/2020 16:58	WG1444067
Naphthalene	ND	<u>JO</u>	100	20	03/14/2020 16:58	WG1444067
1,2-Dichloroethane	ND		20.0	20	03/14/2020 16:58	WG1444067
(S) Toluene-d8	98.7		80.0-120		03/14/2020 16:58	WG1444067
(S) Toluene-d8	116		80.0-120		03/18/2020 01:12	WG1445837
(S) 4-Bromofluorobenzene	95.6		77.0-126		03/14/2020 16:58	WG1444067
(S) 4-Bromofluorobenzene	102		77.0-126		03/18/2020 01:12	WG1445837
(S) 1,2-Dichloroethane-d4	98.9		70.0-130		03/14/2020 16:58	WG1444067
(S) 1,2-Dichloroethane-d4	106		70.0-130		03/18/2020 01:12	WG1445837

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	1000		20.0	20	03/18/2020 01:32	WG1445837
Toluene	30.5		1.00	1	03/14/2020 17:19	WG1444067
Ethylbenzene	4.59		1.00	1	03/14/2020 17:19	WG1444067
Total Xylenes	23.3		3.00	1	03/14/2020 17:19	WG1444067
Methyl tert-butyl ether	133		1.00	1	03/14/2020 17:19	WG1444067
Naphthalene	6.17	<u>JO</u>	5.00	1	03/14/2020 17:19	WG1444067
1,2-Dichloroethane	ND		1.00	1	03/14/2020 17:19	WG1444067
(S) Toluene-d8	102		80.0-120		03/14/2020 17:19	WG1444067
(S) Toluene-d8	114		80.0-120		03/18/2020 01:32	WG1445837
(S) 4-Bromofluorobenzene	94.4		77.0-126		03/14/2020 17:19	WG1444067
(S) 4-Bromofluorobenzene	99.7		77.0-126		03/18/2020 01:32	WG1445837
(S) 1,2-Dichloroethane-d4	90.9		70.0-130		03/14/2020 17:19	WG1444067
(S) 1,2-Dichloroethane-d4	106		70.0-130		03/18/2020 01:32	WG1445837

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/14/2020 17:39	WG1444067
Toluene	ND		1.00	1	03/14/2020 17:39	WG1444067
Ethylbenzene	ND		1.00	1	03/14/2020 17:39	WG1444067
Total Xylenes	ND		3.00	1	03/14/2020 17:39	WG1444067
Methyl tert-butyl ether	1.23		1.00	1	03/14/2020 17:39	WG1444067
Naphthalene	ND	<u>JO</u>	5.00	1	03/14/2020 17:39	WG1444067
1,2-Dichloroethane	ND		1.00	1	03/14/2020 17:39	WG1444067
(S) Toluene-d8	99.4		80.0-120		03/14/2020 17:39	WG1444067
(S) 4-Bromofluorobenzene	96.9		77.0-126		03/14/2020 17:39	WG1444067
(S) 1,2-Dichloroethane-d4	103		70.0-130		03/14/2020 17:39	WG1444067

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/14/2020 17:59	WG1444067
Toluene	ND		1.00	1	03/14/2020 17:59	WG1444067
Ethylbenzene	ND		1.00	1	03/14/2020 17:59	WG1444067
Total Xylenes	ND		3.00	1	03/14/2020 17:59	WG1444067
Methyl tert-butyl ether	60.5		1.00	1	03/14/2020 17:59	WG1444067
Naphthalene	ND	<u>JO</u>	5.00	1	03/14/2020 17:59	WG1444067
1,2-Dichloroethane	ND		1.00	1	03/14/2020 17:59	WG1444067
(S) Toluene-d8	101		80.0-120		03/14/2020 17:59	WG1444067
(S) 4-Bromofluorobenzene	99.6		77.0-126		03/14/2020 17:59	WG1444067
(S) 1,2-Dichloroethane-d4	104		70.0-130		03/14/2020 17:59	WG1444067

- 1 Cp
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- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/14/2020 18:19	WG1444067
Toluene	ND		1.00	1	03/14/2020 18:19	WG1444067
Ethylbenzene	ND		1.00	1	03/14/2020 18:19	WG1444067
Total Xylenes	ND		3.00	1	03/14/2020 18:19	WG1444067
Methyl tert-butyl ether	ND		1.00	1	03/14/2020 18:19	WG1444067
Naphthalene	ND	<u>JO</u>	5.00	1	03/14/2020 18:19	WG1444067
1,2-Dichloroethane	ND		1.00	1	03/14/2020 18:19	WG1444067
(S) Toluene-d8	99.6		80.0-120		03/14/2020 18:19	WG1444067
(S) 4-Bromofluorobenzene	97.6		77.0-126		03/14/2020 18:19	WG1444067
(S) 1,2-Dichloroethane-d4	105		70.0-130		03/14/2020 18:19	WG1444067

- 1 Cp
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Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/14/2020 18:39	WG1444067
Toluene	ND		1.00	1	03/14/2020 18:39	WG1444067
Ethylbenzene	ND		1.00	1	03/14/2020 18:39	WG1444067
Total Xylenes	ND		3.00	1	03/14/2020 18:39	WG1444067
Methyl tert-butyl ether	ND		1.00	1	03/14/2020 18:39	WG1444067
Naphthalene	ND	<u>JO</u>	5.00	1	03/14/2020 18:39	WG1444067
1,2-Dichloroethane	ND		1.00	1	03/14/2020 18:39	WG1444067
(S) Toluene-d8	99.1		80.0-120		03/14/2020 18:39	WG1444067
(S) 4-Bromofluorobenzene	98.4		77.0-126		03/14/2020 18:39	WG1444067
(S) 1,2-Dichloroethane-d4	104		70.0-130		03/14/2020 18:39	WG1444067

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/14/2020 19:00	WG1444067
Toluene	ND		1.00	1	03/14/2020 19:00	WG1444067
Ethylbenzene	ND		1.00	1	03/14/2020 19:00	WG1444067
Total Xylenes	ND		3.00	1	03/14/2020 19:00	WG1444067
Methyl tert-butyl ether	ND		1.00	1	03/14/2020 19:00	WG1444067
Naphthalene	ND	<u>JO</u>	5.00	1	03/14/2020 19:00	WG1444067
1,2-Dichloroethane	ND		1.00	1	03/14/2020 19:00	WG1444067
(S) Toluene-d8	98.9		80.0-120		03/14/2020 19:00	WG1444067
(S) 4-Bromofluorobenzene	95.7		77.0-126		03/14/2020 19:00	WG1444067
(S) 1,2-Dichloroethane-d4	107		70.0-130		03/14/2020 19:00	WG1444067

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Sulfate	110000		50000	10	03/14/2020 20:06	WG1443383

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	99.4		1.00	1	03/14/2020 19:20	WG1444067
Toluene	ND		1.00	1	03/14/2020 19:20	WG1444067
Ethylbenzene	ND		1.00	1	03/14/2020 19:20	WG1444067
Total Xylenes	9.45		3.00	1	03/14/2020 19:20	WG1444067
Methyl tert-butyl ether	98.4		1.00	1	03/14/2020 19:20	WG1444067
Naphthalene	ND	<u>JO</u>	5.00	1	03/14/2020 19:20	WG1444067
1,2-Dichloroethane	ND		1.00	1	03/14/2020 19:20	WG1444067
(S) Toluene-d8	101		80.0-120		03/14/2020 19:20	WG1444067
(S) 4-Bromofluorobenzene	102		77.0-126		03/14/2020 19:20	WG1444067
(S) 1,2-Dichloroethane-d4	102		70.0-130		03/14/2020 19:20	WG1444067

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Sulfate	87200		50000	10	03/14/2020 20:22	WG1443383

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	46.6		1.00	1	03/14/2020 19:41	WG1444067
Toluene	ND		1.00	1	03/14/2020 19:41	WG1444067
Ethylbenzene	ND		1.00	1	03/14/2020 19:41	WG1444067
Total Xylenes	19.1		3.00	1	03/14/2020 19:41	WG1444067
Methyl tert-butyl ether	192		1.00	1	03/14/2020 19:41	WG1444067
Naphthalene	ND	<u>JO</u>	5.00	1	03/14/2020 19:41	WG1444067
1,2-Dichloroethane	ND		1.00	1	03/14/2020 19:41	WG1444067
(S) Toluene-d8	100		80.0-120		03/14/2020 19:41	WG1444067
(S) 4-Bromofluorobenzene	102		77.0-126		03/14/2020 19:41	WG1444067
(S) 1,2-Dichloroethane-d4	106		70.0-130		03/14/2020 19:41	WG1444067

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/14/2020 21:56	WG1444256
Toluene	ND		1.00	1	03/14/2020 21:56	WG1444256
Ethylbenzene	ND		1.00	1	03/14/2020 21:56	WG1444256
Total Xylenes	ND		3.00	1	03/14/2020 21:56	WG1444256
Methyl tert-butyl ether	ND		1.00	1	03/14/2020 21:56	WG1444256
Naphthalene	ND		5.00	1	03/14/2020 21:56	WG1444256
1,2-Dichloroethane	ND		1.00	1	03/14/2020 21:56	WG1444256
(S) Toluene-d8	102		80.0-120		03/14/2020 21:56	WG1444256
(S) 4-Bromofluorobenzene	101		77.0-126		03/14/2020 21:56	WG1444256
(S) 1,2-Dichloroethane-d4	109		70.0-130		03/14/2020 21:56	WG1444256

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/14/2020 22:17	WG1444256
Toluene	ND		1.00	1	03/14/2020 22:17	WG1444256
Ethylbenzene	ND		1.00	1	03/14/2020 22:17	WG1444256
Total Xylenes	ND		3.00	1	03/14/2020 22:17	WG1444256
Methyl tert-butyl ether	ND		1.00	1	03/14/2020 22:17	WG1444256
Naphthalene	ND		5.00	1	03/14/2020 22:17	WG1444256
1,2-Dichloroethane	ND		1.00	1	03/14/2020 22:17	WG1444256
(S) Toluene-d8	97.9		80.0-120		03/14/2020 22:17	WG1444256
(S) 4-Bromofluorobenzene	100		77.0-126		03/14/2020 22:17	WG1444256
(S) 1,2-Dichloroethane-d4	104		70.0-130		03/14/2020 22:17	WG1444256

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft

Kinder Morgan- Atlanta, GA
 Ten 10th Street NW
 Suite 1400
 Atlanta GA 30309

Billing Information:
 Accounts Payable
 1000 Windward Concourse
 Ste 450
 Alpharetta, GA 30005

Report to:
Bethany Garvey

Email To:
 bethany.garvey@jacobs.com;tom.wiley@jacobs.co

Project
 Description: **Lewis Drive Groundwater**

City/State
 Collected: **BELTON, SC**

Please Circle:
 PT MT CT ET

Phone: **770-604-9182**
 Fax:

Client Project #
KMLDOM20
B.C.S.GEN. LDOMR.GW

Lab Project #
KINCH2MGA-LEWIS12

Collected by (print):
MELISSA WARRICK

Site/Facility ID #
LEWIS DRIVE

P.O. #

Collected by (signature):
 Immediately
 Packed on Ice N Y

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #
 Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
-----------	-----------	----------	-------	------	------	--------------

MW-23-031120	GRAB	GW	NA	03/11/20	0920	3
MW-23-D-031120		GW			0925	
MW-45-031120		GW			0930	
MW-07-031120		GW			0945	
MW-158-031120		GW			1015	
MW-14-031120		GW			1030	
MW-148-031120		GW			1035	
MW-138-031120		GW			1045	
MW-13-031120		GW			1055	
MW-48B-031120		GW			1115	

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: V8260BTEXMNSC=BTEX, MTBE, Naphthalene, and 1,2-DCA.
 pH _____ Temp _____
 Flow _____ Other _____

Samples returned via:
 UPS FedEx Courier _____
 Tracking # **166357527574**

Sample Receipt Checklist	
COC Seal Present/Intact: <u> </u> NP	<u> </u> Y <u> </u> N
COC Signed/Accurate:	<u> </u> Y <u> </u> N
Bottles arrive intact:	<u> </u> Y <u> </u> N
Correct bottles used:	<u> </u> Y <u> </u> N
Sufficient volume sent:	<u> </u> Y <u> </u> N
If Applicable	
VOA Zero Headspace:	<u> </u> Y <u> </u> N
Preservation Correct/Checked:	<u> </u> Y <u> </u> N
RAD Screen <0.5 mR/hr:	<u> </u> Y <u> </u> N

Relinquished by: (Signature)
[Signature]

Date: **03/11/20**

Time: **1830**

Received by: (Signature)
[Signature]
 Trip Blank Received: Yes No
 HCl MeOH
 TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)
[Signature]
 Temp: **47** °C
2.3 ± .2 = 2.553
 Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)
Sandy yassif
3/12/20
8:30

Hold: Condition: **NCF / OK**

Pres Chk	Analysis / Container / Preservative					
	NITRATE,SULFATE 125mlHDPE-NoPres	ALK,CO2 125mlHDPE-NoPres	Methane - RSK175 40mlAmb HCl	SULFATE 125mlHDPE-NoPres	V8260BTEXMNSC 40mlAmb-HCl	V8260BTEXMNSC-TB 40mlAmb-HCl-Bik
				X		

Chain of Custody Page 1 of 2



12065 Lebanon Rd
 Mount Juliet, TN 37122
 Phone: 615-758-5858
 Phone: 800-767-5859
 Fax: 615-758-5859



SDG # **L1198496**
 Table #
 Acctnum: **KINCH2MGA**
 Template: **T155769**
 Prelogin: **P758897**
 PM: **526 - Chris McCord**
 PB: **3-4-2020**
 Shipped Via: **FedEx Ground**
 Remarks Sample # (lab only)

Kinder Morgan- Atlanta, GA

Ten 10th Street NW
Suite 1400
Atlanta GA 30309

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Pres
Chk

Report to:
Bethany Garvey

Email To:
bethany.garvey@jacobs.com;tom.wiley@jacobs.co

Project
Description: **Lewis Drive Groundwater**

City/State
Collected: **BELTON, SC**

Please Circle:
PT MT CT ET

Phone: **770-604-9182**
Fax:

Client Project #
KMLDOM20
B.CS.GEN.LDOMR.GW
Lab Project #
KINCH2MGA-LEWIS12

Collected by (print):
MELISSA WARREN

Site/Facility ID #
LEWIS DRIVE

P.O. #

Collected by (signature):
Melissa Warren

Rush? (Lab MUST Be Notified)

Quote #

Immediately
Packed on Ice N Y

Same Day Five Day
Next Day 5 Day (Rad Only)
Two Day 10 Day (Rad Only)
Three Day

Date Results Needed

No.
of
Cnts

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts
MW-50B-031120	GRAB	GW	NA	03/11/20	1335	3
MW-33T-031120	↓	GW	↓	↓	1350	3
MW-31-031120	↓	GW	↓	↓	1400	3
MW-47-031120	↓	GW	↓	↓	1410	3
MW-57-031120	↓	GW	↓	↓	1605	4
MW-56-031120	↓	GW	↓	↓	1610	4
FB02-031120	↓	GW	↓	↓	1730	3
TB02-031120	↓	GW	↓	↓	—	1
		GW				
		GW				

Analysis / Container / Preservative	Preservative	
	Analysis	Container
** NITRATE,SULFATE** 125mlHDPE-NoPres	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ALK,CO2 125mlHDPE-NoPres	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Methane - RSK175 40mlAmb HCl	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SULFATE 125mlHDPE-NoPres	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
V8260BTEXMNSC 40mlAmb-HCl	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
V8260BTEXMNSC-TB 40mlAmb-HCl-Bik	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Chain of Custody Page 2 of 2



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



SDG # **L1198496**

Table #

Acctnum: **KINCH2MGA**

Template: **T155769**

Prelogin: **P758897**

PM: **526 - Chris McCord**

PB: **3-4-2020**

Shipped Via: **FedEX Ground**

Remarks	Sample # (lab only)
	-11
	-12
	-13
	-14
	-15
	-16
FIELD BLANK	-17
TB	-18

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - Waste Water
DW - Drinking Water
OT - Other _____

Remarks: V8260BTEXMNSC=BTEX, MTBE, Naphthalene, and 1,2-DCA.

pH _____ Temp _____
Flow _____ Other _____

Sample Receipt Checklist	
COC Seal Present/Intact: <u> </u> NP <u> </u> Y <u> </u> N	
COC Signed/Accurate: <u> </u> Y <u> </u> N	
Bottles arrive intact: <u> </u> Y <u> </u> N	
Correct bottles used: <u> </u> Y <u> </u> N	
Sufficient volume sent: <u> </u> Y <u> </u> N	
If Applicable	
VOA Zero Headspace: <u> </u> Y <u> </u> N	
Preservation Correct/Checked: <u> </u> Y <u> </u> N	
RAD Screen <0.5 mR/hr: <u> </u> Y <u> </u> N	

Samples returned via:
 UPS FedEx Courier _____

Tracking # **16635727574**

Relinquished by: (Signature)
Melissa Warren

Date: **03/11/20**
Time: **1830**

Received by: (Signature)

Trip Blank Received Yes No
 HCL MeOH
 TBR

Relinquished by: (Signature)

Date: _____
Time: _____

Received by: (Signature)

Temp: **14.7** °C
2.3+2=2.5 53

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: _____
Time: _____

Received for lab by: (Signature)

Date: **3/12/20**
Time: **8:30**

Hold: _____
Condition: NCF /

Kinder Morgan- Atlanta, GA

Sample Delivery Group: L1198755
Samples Received: 03/13/2020
Project Number: KMLDOM20 B.CS.GEN.LD
Description: Lewis Drive Groundwater
Site: LEWIS DRIVE
Report To: Bethany Garvey
Ten 10th Street NW
Suite 1400
Atlanta, GA 30309

Entire Report Reviewed By:



Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Report Revision History

Level II Report - Version 1: 03/23/20 15:58

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/14/2020 22:37	WG1444256
Toluene	ND		1.00	1	03/14/2020 22:37	WG1444256
Ethylbenzene	ND		1.00	1	03/14/2020 22:37	WG1444256
Total Xylenes	ND		3.00	1	03/14/2020 22:37	WG1444256
Methyl tert-butyl ether	ND		1.00	1	03/14/2020 22:37	WG1444256
Naphthalene	ND		5.00	1	03/14/2020 22:37	WG1444256
1,2-Dichloroethane	ND		1.00	1	03/14/2020 22:37	WG1444256
(S) Toluene-d8	99.9		80.0-120		03/14/2020 22:37	WG1444256
(S) 4-Bromofluorobenzene	96.9		77.0-126		03/14/2020 22:37	WG1444256
(S) 1,2-Dichloroethane-d4	103		70.0-130		03/14/2020 22:37	WG1444256

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/14/2020 22:58	WG1444256
Toluene	ND		1.00	1	03/14/2020 22:58	WG1444256
Ethylbenzene	ND		1.00	1	03/14/2020 22:58	WG1444256
Total Xylenes	ND		3.00	1	03/14/2020 22:58	WG1444256
Methyl tert-butyl ether	ND		1.00	1	03/14/2020 22:58	WG1444256
Naphthalene	ND		5.00	1	03/14/2020 22:58	WG1444256
1,2-Dichloroethane	ND		1.00	1	03/14/2020 22:58	WG1444256
(S) Toluene-d8	97.9		80.0-120		03/14/2020 22:58	WG1444256
(S) 4-Bromofluorobenzene	94.2		77.0-126		03/14/2020 22:58	WG1444256
(S) 1,2-Dichloroethane-d4	102		70.0-130		03/14/2020 22:58	WG1444256

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/14/2020 23:18	WG1444256
Toluene	ND		1.00	1	03/14/2020 23:18	WG1444256
Ethylbenzene	ND		1.00	1	03/14/2020 23:18	WG1444256
Total Xylenes	ND		3.00	1	03/14/2020 23:18	WG1444256
Methyl tert-butyl ether	ND		1.00	1	03/14/2020 23:18	WG1444256
Naphthalene	ND		5.00	1	03/14/2020 23:18	WG1444256
1,2-Dichloroethane	ND		1.00	1	03/14/2020 23:18	WG1444256
(S) Toluene-d8	97.6		80.0-120		03/14/2020 23:18	WG1444256
(S) 4-Bromofluorobenzene	97.4		77.0-126		03/14/2020 23:18	WG1444256
(S) 1,2-Dichloroethane-d4	109		70.0-130		03/14/2020 23:18	WG1444256

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/14/2020 23:38	WG1444256
Toluene	ND		1.00	1	03/14/2020 23:38	WG1444256
Ethylbenzene	ND		1.00	1	03/14/2020 23:38	WG1444256
Total Xylenes	ND		3.00	1	03/14/2020 23:38	WG1444256
Methyl tert-butyl ether	ND		1.00	1	03/14/2020 23:38	WG1444256
Naphthalene	ND		5.00	1	03/14/2020 23:38	WG1444256
1,2-Dichloroethane	ND		1.00	1	03/14/2020 23:38	WG1444256
(S) Toluene-d8	98.9		80.0-120		03/14/2020 23:38	WG1444256
(S) 4-Bromofluorobenzene	97.6		77.0-126		03/14/2020 23:38	WG1444256
(S) 1,2-Dichloroethane-d4	106		70.0-130		03/14/2020 23:38	WG1444256

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/14/2020 23:58	WG1444256
Toluene	ND		1.00	1	03/14/2020 23:58	WG1444256
Ethylbenzene	ND		1.00	1	03/14/2020 23:58	WG1444256
Total Xylenes	ND		3.00	1	03/14/2020 23:58	WG1444256
Methyl tert-butyl ether	2.77		1.00	1	03/14/2020 23:58	WG1444256
Naphthalene	ND		5.00	1	03/14/2020 23:58	WG1444256
1,2-Dichloroethane	ND		1.00	1	03/14/2020 23:58	WG1444256
(S) Toluene-d8	100		80.0-120		03/14/2020 23:58	WG1444256
(S) 4-Bromofluorobenzene	98.3		77.0-126		03/14/2020 23:58	WG1444256
(S) 1,2-Dichloroethane-d4	102		70.0-130		03/14/2020 23:58	WG1444256

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	6600		250	250	03/15/2020 00:19	WG1444256
Toluene	12800		250	250	03/15/2020 00:19	WG1444256
Ethylbenzene	1230		250	250	03/15/2020 00:19	WG1444256
Total Xylenes	8550		3.00	250	03/15/2020 00:19	WG1444256
Methyl tert-butyl ether	417		250	250	03/15/2020 00:19	WG1444256
Naphthalene	ND		1250	250	03/15/2020 00:19	WG1444256
1,2-Dichloroethane	ND		250	250	03/15/2020 00:19	WG1444256
(S) Toluene-d8	102		80.0-120		03/15/2020 00:19	WG1444256
(S) 4-Bromofluorobenzene	99.7		77.0-126		03/15/2020 00:19	WG1444256
(S) 1,2-Dichloroethane-d4	102		70.0-130		03/15/2020 00:19	WG1444256

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	50200		20000	1	03/17/2020 17:37	WG1443982

Sample Narrative:

L1198755-07 WG1443982: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	73900	<u>T8</u>	20000	1	03/17/2020 17:37	WG1443982

Sample Narrative:

L1198755-07 WG1443982: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	ND		100	1	03/13/2020 18:10	WG1443439
Sulfate	ND		5000	1	03/13/2020 18:10	WG1443439

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Methane	4120		10.0	1	03/19/2020 14:48	WG1445973

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	6790		250	250	03/15/2020 00:39	WG1444256
Toluene	20100		250	250	03/15/2020 00:39	WG1444256
Ethylbenzene	1360		250	250	03/15/2020 00:39	WG1444256
Total Xylenes	9680		3.00	250	03/15/2020 00:39	WG1444256
Methyl tert-butyl ether	ND		250	250	03/15/2020 00:39	WG1444256
Naphthalene	ND		1250	250	03/15/2020 00:39	WG1444256
1,2-Dichloroethane	ND		250	250	03/15/2020 00:39	WG1444256
(S) Toluene-d8	100		80.0-120		03/15/2020 00:39	WG1444256
(S) 4-Bromofluorobenzene	97.5		77.0-126		03/15/2020 00:39	WG1444256
(S) 1,2-Dichloroethane-d4	102		70.0-130		03/15/2020 00:39	WG1444256

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20000	1	03/17/2020 17:44	WG1443982

Sample Narrative:

L1198755-08 WG1443982: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	<u>T8</u>	20000	1	03/17/2020 17:44	WG1443982

Sample Narrative:

L1198755-08 WG1443982: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	ND		100	1	03/13/2020 18:23	WG1443439
Sulfate	12100		5000	1	03/13/2020 18:23	WG1443439

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	03/19/2020 14:52	WG1445973

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/15/2020 01:00	WG1444256
Toluene	ND		1.00	1	03/15/2020 01:00	WG1444256
Ethylbenzene	ND		1.00	1	03/15/2020 01:00	WG1444256
Total Xylenes	35.1		3.00	1	03/15/2020 01:00	WG1444256
Methyl tert-butyl ether	ND		1.00	1	03/15/2020 01:00	WG1444256
Naphthalene	68.4		5.00	1	03/15/2020 01:00	WG1444256
1,2-Dichloroethane	ND		1.00	1	03/15/2020 01:00	WG1444256
(S) Toluene-d8	95.6		80.0-120		03/15/2020 01:00	WG1444256
(S) 4-Bromofluorobenzene	106		77.0-126		03/15/2020 01:00	WG1444256
(S) 1,2-Dichloroethane-d4	108		70.0-130		03/15/2020 01:00	WG1444256

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/15/2020 01:20	WG1444256
Toluene	ND		1.00	1	03/15/2020 01:20	WG1444256
Ethylbenzene	ND		1.00	1	03/15/2020 01:20	WG1444256
Total Xylenes	ND		3.00	1	03/15/2020 01:20	WG1444256
Methyl tert-butyl ether	ND		1.00	1	03/15/2020 01:20	WG1444256
Naphthalene	5.11		5.00	1	03/15/2020 01:20	WG1444256
1,2-Dichloroethane	ND		1.00	1	03/15/2020 01:20	WG1444256
(S) Toluene-d8	99.1		80.0-120		03/15/2020 01:20	WG1444256
(S) 4-Bromofluorobenzene	96.6		77.0-126		03/15/2020 01:20	WG1444256
(S) 1,2-Dichloroethane-d4	102		70.0-130		03/15/2020 01:20	WG1444256

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/15/2020 01:40	WG1444256
Toluene	ND		1.00	1	03/15/2020 01:40	WG1444256
Ethylbenzene	ND		1.00	1	03/15/2020 01:40	WG1444256
Total Xylenes	ND		3.00	1	03/15/2020 01:40	WG1444256
Methyl tert-butyl ether	ND		1.00	1	03/15/2020 01:40	WG1444256
Naphthalene	ND		5.00	1	03/15/2020 01:40	WG1444256
1,2-Dichloroethane	ND		1.00	1	03/15/2020 01:40	WG1444256
(S) Toluene-d8	101		80.0-120		03/15/2020 01:40	WG1444256
(S) 4-Bromofluorobenzene	98.3		77.0-126		03/15/2020 01:40	WG1444256
(S) 1,2-Dichloroethane-d4	102		70.0-130		03/15/2020 01:40	WG1444256

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/15/2020 02:01	WG1444256
Toluene	ND		1.00	1	03/15/2020 02:01	WG1444256
Ethylbenzene	ND		1.00	1	03/15/2020 02:01	WG1444256
Total Xylenes	ND		3.00	1	03/15/2020 02:01	WG1444256
Methyl tert-butyl ether	ND		1.00	1	03/15/2020 02:01	WG1444256
Naphthalene	ND		5.00	1	03/15/2020 02:01	WG1444256
1,2-Dichloroethane	ND		1.00	1	03/15/2020 02:01	WG1444256
(S) Toluene-d8	98.7		80.0-120		03/15/2020 02:01	WG1444256
(S) 4-Bromofluorobenzene	100		77.0-126		03/15/2020 02:01	WG1444256
(S) 1,2-Dichloroethane-d4	103		70.0-130		03/15/2020 02:01	WG1444256

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	5.76		1.00	1	03/15/2020 02:21	WG1444256
Toluene	ND		1.00	1	03/15/2020 02:21	WG1444256
Ethylbenzene	ND		1.00	1	03/15/2020 02:21	WG1444256
Total Xylenes	ND		3.00	1	03/15/2020 02:21	WG1444256
Methyl tert-butyl ether	1.12		1.00	1	03/15/2020 02:21	WG1444256
Naphthalene	ND		5.00	1	03/15/2020 02:21	WG1444256
1,2-Dichloroethane	ND		1.00	1	03/15/2020 02:21	WG1444256
(S) Toluene-d8	99.5		80.0-120		03/15/2020 02:21	WG1444256
(S) 4-Bromofluorobenzene	96.5		77.0-126		03/15/2020 02:21	WG1444256
(S) 1,2-Dichloroethane-d4	103		70.0-130		03/15/2020 02:21	WG1444256

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20000	1	03/17/2020 17:50	WG1443982

Sample Narrative:

L1198755-13 WG1443982: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	25000	<u>T8</u>	20000	1	03/17/2020 17:50	WG1443982

Sample Narrative:

L1198755-13 WG1443982: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	ND		100	1	03/13/2020 18:36	WG1443439
Sulfate	ND		5000	1	03/13/2020 18:36	WG1443439

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	03/19/2020 14:58	WG1445973

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		5.00	5	03/24/2020 14:02	WG1449313
Toluene	ND		5.00	5	03/24/2020 14:02	WG1449313
Ethylbenzene	ND		5.00	5	03/24/2020 14:02	WG1449313
Total Xylenes	ND		15.0	5	03/24/2020 14:02	WG1449313
Methyl tert-butyl ether	ND		5.00	5	03/24/2020 14:02	WG1449313
Naphthalene	ND		25.0	5	03/24/2020 14:02	WG1449313
1,2-Dichloroethane	ND		5.00	5	03/24/2020 14:02	WG1449313
(S) Toluene-d8	104		80.0-120		03/24/2020 14:02	WG1449313
(S) 4-Bromofluorobenzene	88.7		77.0-126		03/24/2020 14:02	WG1449313
(S) 1,2-Dichloroethane-d4	107		70.0-130		03/24/2020 14:02	WG1449313

Sample Narrative:

L1198755-13 WG1449313: Non-target compounds too high to run at a lower dilution.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/15/2020 03:02	WG1444256
Toluene	3.03		1.00	1	03/15/2020 03:02	WG1444256
Ethylbenzene	1.67		1.00	1	03/15/2020 03:02	WG1444256
Total Xylenes	13.1		3.00	1	03/15/2020 03:02	WG1444256
Methyl tert-butyl ether	ND		1.00	1	03/15/2020 03:02	WG1444256
Naphthalene	ND		5.00	1	03/15/2020 03:02	WG1444256
1,2-Dichloroethane	ND		1.00	1	03/15/2020 03:02	WG1444256
(S) Toluene-d8	99.7		80.0-120		03/15/2020 03:02	WG1444256
(S) 4-Bromofluorobenzene	96.1		77.0-126		03/15/2020 03:02	WG1444256
(S) 1,2-Dichloroethane-d4	105		70.0-130		03/15/2020 03:02	WG1444256

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/15/2020 03:22	WG1444256
Toluene	ND		1.00	1	03/15/2020 03:22	WG1444256
Ethylbenzene	ND		1.00	1	03/15/2020 03:22	WG1444256
Total Xylenes	ND		3.00	1	03/15/2020 03:22	WG1444256
Methyl tert-butyl ether	ND		1.00	1	03/15/2020 03:22	WG1444256
Naphthalene	ND		5.00	1	03/15/2020 03:22	WG1444256
1,2-Dichloroethane	ND		1.00	1	03/15/2020 03:22	WG1444256
(S) Toluene-d8	98.8		80.0-120		03/15/2020 03:22	WG1444256
(S) 4-Bromofluorobenzene	103		77.0-126		03/15/2020 03:22	WG1444256
(S) 1,2-Dichloroethane-d4	106		70.0-130		03/15/2020 03:22	WG1444256

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	22.6		1.00	1	03/15/2020 03:43	WG1444256
Toluene	1.27		1.00	1	03/15/2020 03:43	WG1444256
Ethylbenzene	ND		1.00	1	03/15/2020 03:43	WG1444256
Total Xylenes	6.05		3.00	1	03/15/2020 03:43	WG1444256
Methyl tert-butyl ether	ND		1.00	1	03/15/2020 03:43	WG1444256
Naphthalene	8.14		5.00	1	03/15/2020 03:43	WG1444256
1,2-Dichloroethane	ND		1.00	1	03/15/2020 03:43	WG1444256
(S) Toluene-d8	99.1		80.0-120		03/15/2020 03:43	WG1444256
(S) 4-Bromofluorobenzene	94.9		77.0-126		03/15/2020 03:43	WG1444256
(S) 1,2-Dichloroethane-d4	103		70.0-130		03/15/2020 03:43	WG1444256

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	38500	<u>B</u>	20000	1	03/17/2020 17:59	WG1443982

Sample Narrative:

L1198755-17 WG1443982: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	46000	<u>T8</u>	20000	1	03/17/2020 17:59	WG1443982

Sample Narrative:

L1198755-17 WG1443982: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	ND		100	1	03/13/2020 19:02	WG1443439
Sulfate	ND		5000	1	03/13/2020 19:02	WG1443439

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Methane	37.0		10.0	1	03/19/2020 15:06	WG1445973

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	6220		250	250	03/15/2020 04:03	WG1444256
Toluene	31700		250	250	03/15/2020 04:03	WG1444256
Ethylbenzene	2790		250	250	03/15/2020 04:03	WG1444256
Total Xylenes	16000		3.00	250	03/15/2020 04:03	WG1444256
Methyl tert-butyl ether	ND		250	250	03/15/2020 04:03	WG1444256
Naphthalene	ND		1250	250	03/15/2020 04:03	WG1444256
1,2-Dichloroethane	ND		250	250	03/15/2020 04:03	WG1444256
(S) Toluene-d8	96.5		80.0-120		03/15/2020 04:03	WG1444256
(S) 4-Bromofluorobenzene	95.6		77.0-126		03/15/2020 04:03	WG1444256
(S) 1,2-Dichloroethane-d4	102		70.0-130		03/15/2020 04:03	WG1444256

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20000	1	03/17/2020 18:06	WG1443982

Sample Narrative:

L1198755-18 WG1443982: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	<u>T8</u>	20000	1	03/17/2020 18:06	WG1443982

Sample Narrative:

L1198755-18 WG1443982: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	5330		100	1	03/13/2020 19:54	WG1443439
Sulfate	53800		5000	1	03/13/2020 19:54	WG1443439

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	03/20/2020 12:40	WG1447377

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/15/2020 04:23	WG1444256
Toluene	ND		1.00	1	03/15/2020 04:23	WG1444256
Ethylbenzene	ND		1.00	1	03/15/2020 04:23	WG1444256
Total Xylenes	ND		3.00	1	03/15/2020 04:23	WG1444256
Methyl tert-butyl ether	ND		1.00	1	03/15/2020 04:23	WG1444256
Naphthalene	ND		5.00	1	03/15/2020 04:23	WG1444256
1,2-Dichloroethane	ND		1.00	1	03/15/2020 04:23	WG1444256
(S) Toluene-d8	99.1		80.0-120		03/15/2020 04:23	WG1444256
(S) 4-Bromofluorobenzene	94.8		77.0-126		03/15/2020 04:23	WG1444256
(S) 1,2-Dichloroethane-d4	105		70.0-130		03/15/2020 04:23	WG1444256

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/14/2020 23:07	WG1444259
Toluene	ND		1.00	1	03/14/2020 23:07	WG1444259
Ethylbenzene	ND		1.00	1	03/14/2020 23:07	WG1444259
Total Xylenes	ND		3.00	1	03/14/2020 23:07	WG1444259
Methyl tert-butyl ether	ND		1.00	1	03/14/2020 23:07	WG1444259
Naphthalene	ND		5.00	1	03/19/2020 23:39	WG1446546
1,2-Dichloroethane	ND		1.00	1	03/14/2020 23:07	WG1444259
(S) Toluene-d8	105		80.0-120		03/14/2020 23:07	WG1444259
(S) Toluene-d8	110		80.0-120		03/19/2020 23:39	WG1446546
(S) 4-Bromofluorobenzene	94.6		77.0-126		03/14/2020 23:07	WG1444259
(S) 4-Bromofluorobenzene	107		77.0-126		03/19/2020 23:39	WG1446546
(S) 1,2-Dichloroethane-d4	114		70.0-130		03/14/2020 23:07	WG1444259
(S) 1,2-Dichloroethane-d4	107		70.0-130		03/19/2020 23:39	WG1446546

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/14/2020 22:26	WG1444259
Toluene	ND		1.00	1	03/14/2020 22:26	WG1444259
Ethylbenzene	ND		1.00	1	03/14/2020 22:26	WG1444259
Total Xylenes	ND		3.00	1	03/14/2020 22:26	WG1444259
Methyl tert-butyl ether	ND		1.00	1	03/14/2020 22:26	WG1444259
Naphthalene	ND		5.00	1	03/19/2020 22:59	WG1446546
1,2-Dichloroethane	ND		1.00	1	03/14/2020 22:26	WG1444259
(S) Toluene-d8	106		80.0-120		03/14/2020 22:26	WG1444259
(S) Toluene-d8	107		80.0-120		03/19/2020 22:59	WG1446546
(S) 4-Bromofluorobenzene	94.7		77.0-126		03/14/2020 22:26	WG1444259
(S) 4-Bromofluorobenzene	106		77.0-126		03/19/2020 22:59	WG1446546
(S) 1,2-Dichloroethane-d4	117		70.0-130		03/14/2020 22:26	WG1444259
(S) 1,2-Dichloroethane-d4	108		70.0-130		03/19/2020 22:59	WG1446546

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Sulfate	ND		5000	1	03/13/2020 20:07	WG1443439

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/14/2020 23:28	WG1444259
Toluene	ND		1.00	1	03/14/2020 23:28	WG1444259
Ethylbenzene	ND		1.00	1	03/14/2020 23:28	WG1444259
Total Xylenes	ND		3.00	1	03/14/2020 23:28	WG1444259
Methyl tert-butyl ether	161		1.00	1	03/14/2020 23:28	WG1444259
Naphthalene	ND		5.00	1	03/20/2020 00:00	WG1446546
1,2-Dichloroethane	ND		1.00	1	03/14/2020 23:28	WG1444259
(S) Toluene-d8	106		80.0-120		03/14/2020 23:28	WG1444259
(S) Toluene-d8	116		80.0-120		03/20/2020 00:00	WG1446546
(S) 4-Bromofluorobenzene	95.4		77.0-126		03/14/2020 23:28	WG1444259
(S) 4-Bromofluorobenzene	105		77.0-126		03/20/2020 00:00	WG1446546
(S) 1,2-Dichloroethane-d4	109		70.0-130		03/14/2020 23:28	WG1444259
(S) 1,2-Dichloroethane-d4	103		70.0-130		03/20/2020 00:00	WG1446546

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft

Kinder Morgan- Atlanta, GA
 Ten 10th Street NW
 Suite 1400
 Atlanta GA 30309

Report to:
Bethany Garvey

Project Description: **Lewis Drive Groundwater**

City/State Collected: **BELTON, SC**

Please Circle: PT MT CT ET

Client Project # **KMLD0M20**
 B.C.S. GEN. L. DOMR. GW

Lab Project # **KINCH2MGA-LEWIS12**

Collected by (print): **MELISSA WARREN**
 Collected by (signature): *Melissa Warren*

Site/Facility ID # **LEWIS DRIVE**

Quote #

Immediately Packed on Ice N Y

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Date Results Needed

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	**NITRATE,SULFATE** 125mlHDPE-NoPres	ALK, CO2 125mlHDPE-NoPres	Methane - RSK175 40mlAmb HCl	SULFATE, 125mlHDPE-NoPres	V8260BTEXMNSC 40mlAmb-HCl	V8260BTEXMNSC-TB 40mlAmb-HCl-BIK
MW-44B-031220	GRAB	GW	NA	03/12/20	1400	3					X	
MW-01B-031220		GW			1410	3					X	
MW-01-031220		GW			1420	7	X	X	X		X	
MW-27B-031220		GW			1440	3					X	
MW-27-031220		GW			1450	3					X	
MW-12B-031220		GW			1500	3					X	
MW-11-031220		GW			1515	7	X	X	X		X	
MW-22-031220		GW			1540	7	X	X	X		X	
FB03-031220		GW			1555	3					X	
TB03-031220		GW				1						X

Analysis / Container / Preservative

Chain of Custody Page 2 of 3

Face Analytical®
 National Center for Testing & Innovation

12065 Lebanon Rd
 Mount Juliet, TN 37122
 Phone: 615-758-5858
 Phone: 800-767-5859
 Fax: 615-758-5859

QR Code

SDG # **L1198755**

Table #

Acctnum: **KINCH2MGA**

Template: **T155769**

Prelogin: **P758897**

PM: **526 - Chris McCord**

PB: **2-4-2020**

Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

Remarks: **V8260BTEXMNSC=BTEX, MTBE, Naphthalene, and 1,2-DCA.**

Sample Receipt Checklist

COC Seal Present/Intact:	NP	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
COC Signed/Accurate:		<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Bottles arrive intact:		<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Correct bottles used:		<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Sufficient volume sent:		<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
If Applicable			
VOA Zero Headspace:		<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Preservation Correct/Checked:		<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
RAD Screen <0.5 mR/hr:		<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N

Samples returned via: UPS FedEx Courier

Tracking # **10635752 7500**



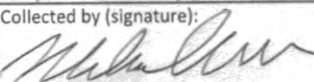
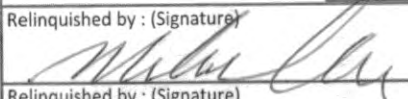
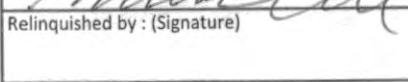
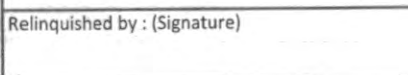
Relinquished by: (Signature) *Melissa Warren* Date: **03/12/20** Time: **1630**

Received by: (Signature) _____ Trip Blank Received: Yes/No HCl/MeoH TBR

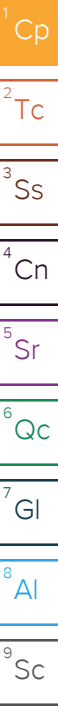
Temp: **11.6 ± 0.1 °C** Bottles Received: **78**

Received for lab by: (Signature) *L. Webster* Date: **3/13/20** Time: **08:45**

Hold: _____ Condition: **NCF** OK

Kinder Morgan- Atlanta, GA		Billing Information:		Accounts Payable 1000 Woodward Concourse Ste 450 Alpharetta, GA 30005		Pres Chk		Analysis / Container / Preservative		Chain of Custody Page 3 of 3	
Ten 10th Street NW Suite 1400 Atlanta GA 30309		Report to: Bethany Garvey		Email To: bethany.garvey@jacobs.com;tom.wiley@jacobs.co						 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859	
Project Description: Lewis Drive Groundwater		City/State Collected: BELTON, SC		Please Circle: PT MT CT ET						 SDG # L1198755	
Phone: 770-604-9182		Client Project # KMLDOM20		Lab Project # KINCH2MGA-LEWIS12						Table #	
Fax:		B. CS, GEN. LDOMR. GW		P.O. #						Acctnum: KINCH2MGA	
Collected by (print): MELISSA WARR		Site/Facility ID # LEWIS DRIVE		Quote #						Template: T155769	
Collected by (signature): 		Rush? (Lab MUST Be Notified)		Date Results Needed						Prelogin: P758897	
Immediately		Same Day <input type="checkbox"/> Five Day <input type="checkbox"/>								PM: 526 - Chris McCord	
Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>		Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/>								PB: 3-4-2020	
		Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/>								Shipped Via: FedEx Ground	
		Three Day <input type="checkbox"/>								Remarks Sample # (lab only)	
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**NITRATE,SULFATE** 125mlHDPE-NoPres ALK,CO2 125mlHDPE-NoPres Methane - RSK175 40mlAmb HCl SULFATE 125mlHDPE-NoPres V8260BTEXMNSC 40mlAmb-HCl V8260BTEXMNSC-TB 40mlAmb-HCl-BIK			
MW-46-031220		GLAB	GW	N/A	03/12/20	1540	4			21	
			GW								
			GW								
			GW								
			GW								
			GW								
			GW								
			GW								
			GW								
			GW								
* Matrix:		Remarks: V8260BTEXMNSC=BTEX, MTBE, Naphthalene, and 1,2-DCA.		pH _____ Temp _____						Sample Receipt Checklist	
SS - Soil AIR - Air F - Filter				Flow _____ Other _____						COC Seal Present/Intact: <input checked="" type="checkbox"/> NP <input type="checkbox"/> N	
GW - Groundwater B - Bioassay				Tracking # 1663 5752 7600						COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
WW - WasteWater				Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier						Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DW - Drinking Water				Relinquished by: (Signature) 		Date: 03/12/20 Time: 1630		Received by: (Signature)		Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
OT - Other				Relinquished by: (Signature) 		Date: _____ Time: _____		Received by: (Signature)		Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
				Relinquished by: (Signature) 		Date: _____ Time: _____		Received by: (Signature)		If Applicable	
				Date: _____ Time: _____		Date: _____ Time: _____		Date: _____ Time: _____		VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
				Date: _____ Time: _____		Date: _____ Time: _____		Date: _____ Time: _____		Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
				Date: _____ Time: _____		Date: _____ Time: _____		Date: _____ Time: _____		RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
				Date: _____ Time: _____		Date: _____ Time: _____		Date: _____ Time: _____		Hold:	
				Date: _____ Time: _____		Date: _____ Time: _____		Date: _____ Time: _____		Condition: <input checked="" type="checkbox"/> NCF <input type="checkbox"/> OK	

March 24, 2020



Kinder Morgan- Atlanta, GA

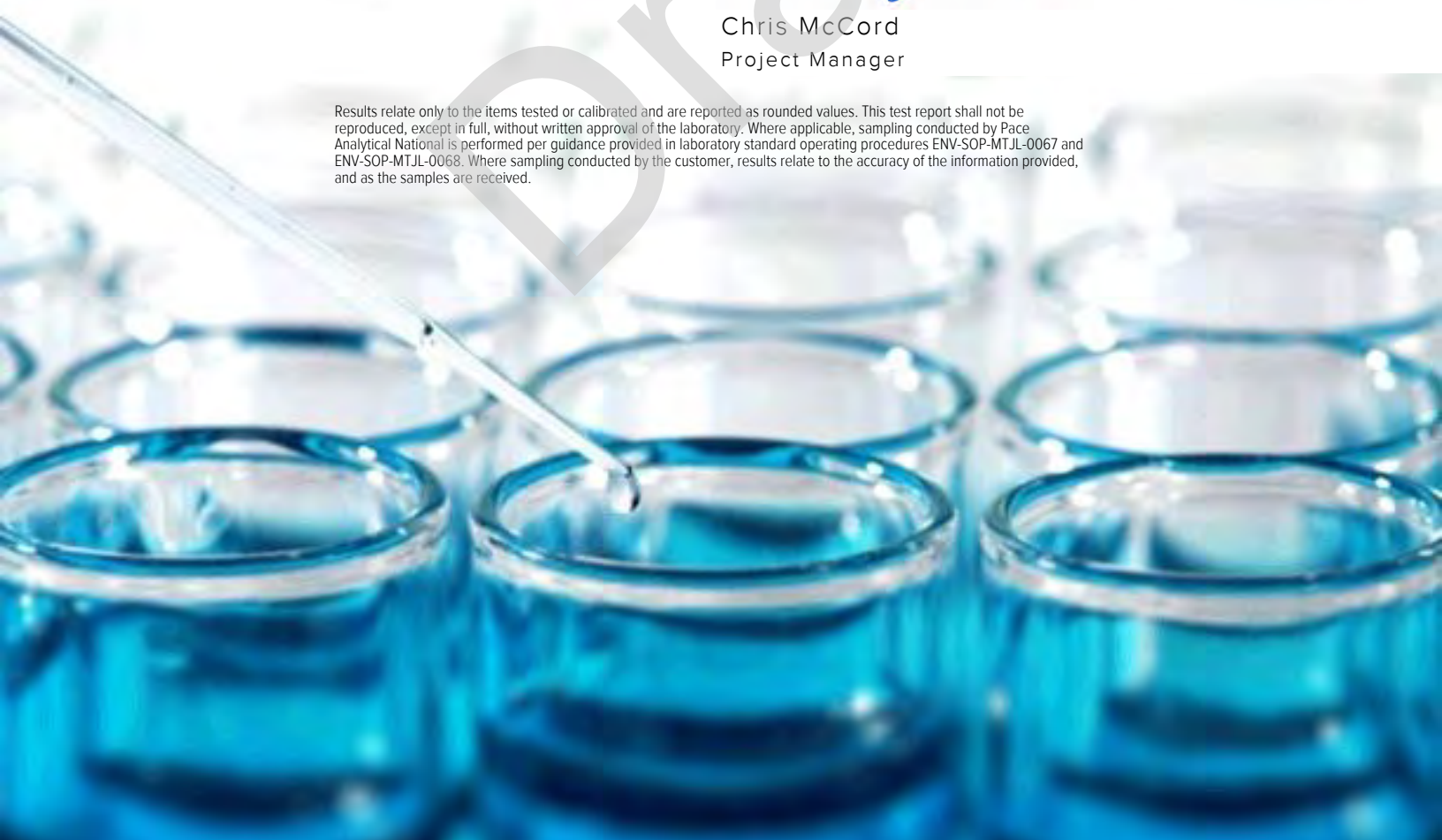
Sample Delivery Group: L1199158
Samples Received: 03/14/2020
Project Number: KMLDOM20 B.CS.GEN.LD
Description: Lewis Drive Groundwater

Report To: Bethany Garvey
Ten 10th Street NW
Suite 1400
Atlanta, GA 30309

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.





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1 Cp
2 Tc
3 Ss
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6 Qc
7 Gl
8 Al
9 Sc

Draft



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Project Manager

Draft

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/16/2020 18:03	WG1444905
Toluene	1.25		1.00	1	03/16/2020 18:03	WG1444905
Ethylbenzene	ND		1.00	1	03/16/2020 18:03	WG1444905
Total Xylenes	ND		3.00	1	03/16/2020 18:03	WG1444905
Methyl tert-butyl ether	ND		1.00	1	03/16/2020 18:03	WG1444905
Naphthalene	ND		5.00	1	03/16/2020 18:03	WG1444905
1,2-Dichloroethane	ND		1.00	1	03/16/2020 18:03	WG1444905
(S) Toluene-d8	104		80.0-120		03/16/2020 18:03	WG1444905
(S) 4-Bromofluorobenzene	96.9		77.0-126		03/16/2020 18:03	WG1444905
(S) 1,2-Dichloroethane-d4	114		70.0-130		03/16/2020 18:03	WG1444905

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	282		10.0	10	03/22/2020 21:41	WG1448481
Toluene	229		10.0	10	03/22/2020 21:41	WG1448481
Ethylbenzene	ND		1.00	1	03/16/2020 18:22	WG1444905
Total Xylenes	211		3.00	1	03/16/2020 18:22	WG1444905
Methyl tert-butyl ether	ND		1.00	1	03/16/2020 18:22	WG1444905
Naphthalene	ND		5.00	1	03/16/2020 18:22	WG1444905
1,2-Dichloroethane	ND		1.00	1	03/16/2020 18:22	WG1444905
(S) Toluene-d8	96.6		80.0-120		03/16/2020 18:22	WG1444905
(S) Toluene-d8	109		80.0-120		03/22/2020 21:41	WG1448481
(S) 4-Bromofluorobenzene	94.9		77.0-126		03/16/2020 18:22	WG1444905
(S) 4-Bromofluorobenzene	105		77.0-126		03/22/2020 21:41	WG1448481
(S) 1,2-Dichloroethane-d4	117		70.0-130		03/16/2020 18:22	WG1444905
(S) 1,2-Dichloroethane-d4	102		70.0-130		03/22/2020 21:41	WG1448481

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	240		5.00	5	03/16/2020 18:41	WG1444905
Toluene	201		5.00	5	03/16/2020 18:41	WG1444905
Ethylbenzene	ND		5.00	5	03/16/2020 18:41	WG1444905
Total Xylenes	183		15.0	5	03/16/2020 18:41	WG1444905
Methyl tert-butyl ether	ND		5.00	5	03/16/2020 18:41	WG1444905
Naphthalene	ND		25.0	5	03/16/2020 18:41	WG1444905
1,2-Dichloroethane	ND		5.00	5	03/16/2020 18:41	WG1444905
(S) Toluene-d8	102		80.0-120		03/16/2020 18:41	WG1444905
(S) 4-Bromofluorobenzene	95.4		77.0-126		03/16/2020 18:41	WG1444905
(S) 1,2-Dichloroethane-d4	114		70.0-130		03/16/2020 18:41	WG1444905

- 1 Cp
- 2 Tc
- 3 Ss
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- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	1.23		1.00	1	03/22/2020 17:30	WG1448532
Toluene	ND		1.00	1	03/22/2020 17:30	WG1448532
Ethylbenzene	ND		1.00	1	03/22/2020 17:30	WG1448532
Total Xylenes	ND		3.00	1	03/22/2020 17:30	WG1448532
Methyl tert-butyl ether	ND		1.00	1	03/22/2020 17:30	WG1448532
Naphthalene	ND	<u>JO</u>	5.00	1	03/22/2020 17:30	WG1448532
1,2-Dichloroethane	ND		1.00	1	03/22/2020 17:30	WG1448532
(S) Toluene-d8	110		80.0-120		03/22/2020 17:30	WG1448532
(S) 4-Bromofluorobenzene	102		77.0-126		03/22/2020 17:30	WG1448532
(S) 1,2-Dichloroethane-d4	111		70.0-130		03/22/2020 17:30	WG1448532

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/17/2020 00:16	WG1445125
Toluene	ND		1.00	1	03/17/2020 00:16	WG1445125
Ethylbenzene	ND		1.00	1	03/17/2020 00:16	WG1445125
Total Xylenes	ND		3.00	1	03/17/2020 00:16	WG1445125
Methyl tert-butyl ether	ND		1.00	1	03/17/2020 00:16	WG1445125
Naphthalene	ND	<u>JO</u>	5.00	1	03/17/2020 00:16	WG1445125
1,2-Dichloroethane	ND		1.00	1	03/17/2020 00:16	WG1445125
(S) Toluene-d8	97.6		80.0-120		03/17/2020 00:16	WG1445125
(S) 4-Bromofluorobenzene	92.6		77.0-126		03/17/2020 00:16	WG1445125
(S) 1,2-Dichloroethane-d4	106		70.0-130		03/17/2020 00:16	WG1445125

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
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Draft



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20000	1	03/16/2020 15:18	WG1444622

Sample Narrative:

L1199158-06 WG1444622: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	<u>T8</u>	20000	1	03/16/2020 15:18	WG1444622

Sample Narrative:

L1199158-06 WG1444622: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	793		100	1	03/14/2020 12:02	WG1444010
Sulfate	ND		5000	1	03/14/2020 12:02	WG1444010

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	03/20/2020 13:00	WG1447377

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/17/2020 00:37	WG1445125
Toluene	ND		1.00	1	03/17/2020 00:37	WG1445125
Ethylbenzene	ND		1.00	1	03/17/2020 00:37	WG1445125
Total Xylenes	ND		3.00	1	03/17/2020 00:37	WG1445125
Methyl tert-butyl ether	ND		1.00	1	03/17/2020 00:37	WG1445125
Naphthalene	ND	<u>JO</u>	5.00	1	03/17/2020 00:37	WG1445125
1,2-Dichloroethane	ND		1.00	1	03/17/2020 00:37	WG1445125
(S) Toluene-d8	97.6		80.0-120		03/17/2020 00:37	WG1445125
(S) 4-Bromofluorobenzene	100		77.0-126		03/17/2020 00:37	WG1445125
(S) 1,2-Dichloroethane-d4	108		70.0-130		03/17/2020 00:37	WG1445125

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20000	1	03/16/2020 15:26	WG1444622

Sample Narrative:

L1199158-07 WG1444622: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	<u>T8</u>	20000	1	03/16/2020 15:26	WG1444622

Sample Narrative:

L1199158-07 WG1444622: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	160		100	1	03/14/2020 12:19	WG1444010
Sulfate	ND		5000	1	03/14/2020 12:19	WG1444010

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	03/20/2020 13:02	WG1447377

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/17/2020 00:57	WG1445125
Toluene	ND		1.00	1	03/17/2020 00:57	WG1445125
Ethylbenzene	ND		1.00	1	03/17/2020 00:57	WG1445125
Total Xylenes	ND		3.00	1	03/17/2020 00:57	WG1445125
Methyl tert-butyl ether	ND		1.00	1	03/17/2020 00:57	WG1445125
Naphthalene	ND	<u>JO</u>	5.00	1	03/17/2020 00:57	WG1445125
1,2-Dichloroethane	ND		1.00	1	03/17/2020 00:57	WG1445125
(S) Toluene-d8	100		80.0-120		03/17/2020 00:57	WG1445125
(S) 4-Bromofluorobenzene	96.6		77.0-126		03/17/2020 00:57	WG1445125
(S) 1,2-Dichloroethane-d4	105		70.0-130		03/17/2020 00:57	WG1445125

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20000	1	03/16/2020 15:33	WG1444622

Sample Narrative:

L1199158-08 WG1444622: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	26800	<u>T8</u>	20000	1	03/16/2020 15:33	WG1444622

Sample Narrative:

L1199158-08 WG1444622: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	ND		100	1	03/14/2020 12:37	WG1444010
Sulfate	ND		5000	1	03/14/2020 12:37	WG1444010

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	03/20/2020 13:04	WG1447377

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/17/2020 01:17	WG1445125
Toluene	ND		1.00	1	03/17/2020 01:17	WG1445125
Ethylbenzene	ND		1.00	1	03/17/2020 01:17	WG1445125
Total Xylenes	ND		3.00	1	03/17/2020 01:17	WG1445125
Methyl tert-butyl ether	ND		1.00	1	03/17/2020 01:17	WG1445125
Naphthalene	ND	<u>JO</u>	5.00	1	03/17/2020 01:17	WG1445125
1,2-Dichloroethane	ND		1.00	1	03/17/2020 01:17	WG1445125
(S) Toluene-d8	98.4		80.0-120		03/17/2020 01:17	WG1445125
(S) 4-Bromofluorobenzene	94.0		77.0-126		03/17/2020 01:17	WG1445125
(S) 1,2-Dichloroethane-d4	104		70.0-130		03/17/2020 01:17	WG1445125

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20000	1	03/16/2020 15:40	WG1444622

Sample Narrative:

L1199158-09 WG1444622: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	<u>T8</u>	20000	1	03/16/2020 15:40	WG1444622

Sample Narrative:

L1199158-09 WG1444622: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	ND		100	1	03/14/2020 13:13	WG1444010
Sulfate	5360		5000	1	03/14/2020 13:13	WG1444010

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	03/20/2020 13:16	WG1447377

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/17/2020 01:38	WG1445125
Toluene	ND		1.00	1	03/17/2020 01:38	WG1445125
Ethylbenzene	ND		1.00	1	03/17/2020 01:38	WG1445125
Total Xylenes	4.60		3.00	1	03/17/2020 01:38	WG1445125
Methyl tert-butyl ether	ND		1.00	1	03/17/2020 01:38	WG1445125
Naphthalene	ND	<u>JO</u>	5.00	1	03/17/2020 01:38	WG1445125
1,2-Dichloroethane	ND		1.00	1	03/17/2020 01:38	WG1445125
(S) Toluene-d8	97.2		80.0-120		03/17/2020 01:38	WG1445125
(S) 4-Bromofluorobenzene	94.5		77.0-126		03/17/2020 01:38	WG1445125
(S) 1,2-Dichloroethane-d4	108		70.0-130		03/17/2020 01:38	WG1445125

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/17/2020 01:58	WG1445125
Toluene	ND		1.00	1	03/17/2020 01:58	WG1445125
Ethylbenzene	ND		1.00	1	03/17/2020 01:58	WG1445125
Total Xylenes	ND		3.00	1	03/17/2020 01:58	WG1445125
Methyl tert-butyl ether	ND		1.00	1	03/17/2020 01:58	WG1445125
Naphthalene	ND	<u>JO</u>	5.00	1	03/17/2020 01:58	WG1445125
1,2-Dichloroethane	ND		1.00	1	03/17/2020 01:58	WG1445125
(S) Toluene-d8	102		80.0-120		03/17/2020 01:58	WG1445125
(S) 4-Bromofluorobenzene	100		77.0-126		03/17/2020 01:58	WG1445125
(S) 1,2-Dichloroethane-d4	107		70.0-130		03/17/2020 01:58	WG1445125

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20000	1	03/16/2020 15:45	WG1444622

Sample Narrative:

L1199158-11 WG1444622: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	<u>T8</u>	20000	1	03/16/2020 15:45	WG1444622

Sample Narrative:

L1199158-11 WG1444622: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	299		100	1	03/14/2020 13:49	WG1444010
Sulfate	ND		5000	1	03/14/2020 13:49	WG1444010

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	03/20/2020 13:21	WG1447377

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/17/2020 02:19	WG1445125
Toluene	ND		1.00	1	03/17/2020 02:19	WG1445125
Ethylbenzene	ND		1.00	1	03/17/2020 02:19	WG1445125
Total Xylenes	ND		3.00	1	03/17/2020 02:19	WG1445125
Methyl tert-butyl ether	2.72		1.00	1	03/17/2020 02:19	WG1445125
Naphthalene	ND	<u>JO</u>	5.00	1	03/17/2020 02:19	WG1445125
1,2-Dichloroethane	ND		1.00	1	03/17/2020 02:19	WG1445125
(S) Toluene-d8	96.7		80.0-120		03/17/2020 02:19	WG1445125
(S) 4-Bromofluorobenzene	97.4		77.0-126		03/17/2020 02:19	WG1445125
(S) 1,2-Dichloroethane-d4	108		70.0-130		03/17/2020 02:19	WG1445125

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/17/2020 02:39	WG1445125
Toluene	ND		1.00	1	03/17/2020 02:39	WG1445125
Ethylbenzene	ND		1.00	1	03/17/2020 02:39	WG1445125
Total Xylenes	ND		3.00	1	03/17/2020 02:39	WG1445125
Methyl tert-butyl ether	ND		1.00	1	03/17/2020 02:39	WG1445125
Naphthalene	ND	<u>JO</u>	5.00	1	03/17/2020 02:39	WG1445125
1,2-Dichloroethane	ND		1.00	1	03/17/2020 02:39	WG1445125
(S) Toluene-d8	95.1		80.0-120		03/17/2020 02:39	WG1445125
(S) 4-Bromofluorobenzene	96.4		77.0-126		03/17/2020 02:39	WG1445125
(S) 1,2-Dichloroethane-d4	107		70.0-130		03/17/2020 02:39	WG1445125

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/17/2020 02:59	WG1445125
Toluene	ND		1.00	1	03/17/2020 02:59	WG1445125
Ethylbenzene	ND		1.00	1	03/17/2020 02:59	WG1445125
Total Xylenes	ND		3.00	1	03/17/2020 02:59	WG1445125
Methyl tert-butyl ether	ND		1.00	1	03/17/2020 02:59	WG1445125
Naphthalene	ND	<u>JO</u>	5.00	1	03/17/2020 02:59	WG1445125
1,2-Dichloroethane	ND		1.00	1	03/17/2020 02:59	WG1445125
(S) Toluene-d8	96.1		80.0-120		03/17/2020 02:59	WG1445125
(S) 4-Bromofluorobenzene	93.8		77.0-126		03/17/2020 02:59	WG1445125
(S) 1,2-Dichloroethane-d4	108		70.0-130		03/17/2020 02:59	WG1445125

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/17/2020 03:20	WG1445125
Toluene	1.56		1.00	1	03/17/2020 03:20	WG1445125
Ethylbenzene	ND		1.00	1	03/17/2020 03:20	WG1445125
Total Xylenes	ND		3.00	1	03/17/2020 03:20	WG1445125
Methyl tert-butyl ether	ND		1.00	1	03/17/2020 03:20	WG1445125
Naphthalene	ND	<u>JO</u>	5.00	1	03/17/2020 03:20	WG1445125
1,2-Dichloroethane	ND		1.00	1	03/17/2020 03:20	WG1445125
(S) Toluene-d8	98.3		80.0-120		03/17/2020 03:20	WG1445125
(S) 4-Bromofluorobenzene	97.2		77.0-126		03/17/2020 03:20	WG1445125
(S) 1,2-Dichloroethane-d4	103		70.0-130		03/17/2020 03:20	WG1445125

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20000	1	03/16/2020 15:54	WG1444622

Sample Narrative:

L1199158-15 WG1444622: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	37000	<u>T8</u>	20000	1	03/16/2020 15:54	WG1444622

Sample Narrative:

L1199158-15 WG1444622: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	ND		100	1	03/14/2020 14:07	WG1444010
Sulfate	ND		5000	1	03/14/2020 14:07	WG1444010

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	03/20/2020 13:23	WG1447377

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/17/2020 03:40	WG1445125
Toluene	ND		1.00	1	03/17/2020 03:40	WG1445125
Ethylbenzene	ND		1.00	1	03/17/2020 03:40	WG1445125
Total Xylenes	ND		3.00	1	03/17/2020 03:40	WG1445125
Methyl tert-butyl ether	ND		1.00	1	03/17/2020 03:40	WG1445125
Naphthalene	ND	<u>JO</u>	5.00	1	03/17/2020 03:40	WG1445125
1,2-Dichloroethane	ND		1.00	1	03/17/2020 03:40	WG1445125
(S) Toluene-d8	99.4		80.0-120		03/17/2020 03:40	WG1445125
(S) 4-Bromofluorobenzene	97.2		77.0-126		03/17/2020 03:40	WG1445125
(S) 1,2-Dichloroethane-d4	105		70.0-130		03/17/2020 03:40	WG1445125

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20000	1	03/16/2020 16:10	WG1444622

Sample Narrative:

L1199158-16 WG1444622: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	47100	<u>T8</u>	20000	1	03/16/2020 16:10	WG1444622

Sample Narrative:

L1199158-16 WG1444622: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	ND		100	1	03/14/2020 15:00	WG1444010
Sulfate	ND		5000	1	03/14/2020 15:00	WG1444010

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	03/20/2020 13:25	WG1447377

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/17/2020 04:01	WG1445125
Toluene	1.02		1.00	1	03/17/2020 04:01	WG1445125
Ethylbenzene	ND		1.00	1	03/17/2020 04:01	WG1445125
Total Xylenes	ND		3.00	1	03/17/2020 04:01	WG1445125
Methyl tert-butyl ether	ND		1.00	1	03/17/2020 04:01	WG1445125
Naphthalene	ND	<u>JO</u>	5.00	1	03/17/2020 04:01	WG1445125
1,2-Dichloroethane	ND		1.00	1	03/17/2020 04:01	WG1445125
(S) Toluene-d8	98.7		80.0-120		03/17/2020 04:01	WG1445125
(S) 4-Bromofluorobenzene	96.7		77.0-126		03/17/2020 04:01	WG1445125
(S) 1,2-Dichloroethane-d4	105		70.0-130		03/17/2020 04:01	WG1445125

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20000	1	03/16/2020 16:16	WG1444622

Sample Narrative:

L1199158-17 WG1444622: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	26700	<u>T8</u>	20000	1	03/16/2020 16:16	WG1444622

Sample Narrative:

L1199158-17 WG1444622: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	ND		100	1	03/14/2020 15:18	WG1444010
Sulfate	ND		5000	1	03/14/2020 15:18	WG1444010

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	03/20/2020 13:27	WG1447377

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/17/2020 04:21	WG1445125
Toluene	1.15		1.00	1	03/17/2020 04:21	WG1445125
Ethylbenzene	ND		1.00	1	03/17/2020 04:21	WG1445125
Total Xylenes	14.7		3.00	1	03/17/2020 04:21	WG1445125
Methyl tert-butyl ether	7.16		1.00	1	03/17/2020 04:21	WG1445125
Naphthalene	6.21	<u>JO</u>	5.00	1	03/17/2020 04:21	WG1445125
1,2-Dichloroethane	ND		1.00	1	03/17/2020 04:21	WG1445125
(S) Toluene-d8	96.4		80.0-120		03/17/2020 04:21	WG1445125
(S) 4-Bromofluorobenzene	96.9		77.0-126		03/17/2020 04:21	WG1445125
(S) 1,2-Dichloroethane-d4	116		70.0-130		03/17/2020 04:21	WG1445125

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20000	1	03/16/2020 16:22	WG1444622

Sample Narrative:

L1199158-18 WG1444622: Endpoint pH 4.5

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	<u>T8</u>	20000	1	03/16/2020 16:22	WG1444622

Sample Narrative:

L1199158-18 WG1444622: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	ND		100	1	03/14/2020 15:36	WG1444010
Sulfate	ND		5000	1	03/14/2020 15:36	WG1444010

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Methane	ND		10.0	1	03/20/2020 13:30	WG1447377

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/17/2020 04:41	WG1445125
Toluene	ND		1.00	1	03/17/2020 04:41	WG1445125
Ethylbenzene	ND		1.00	1	03/17/2020 04:41	WG1445125
Total Xylenes	ND		3.00	1	03/17/2020 04:41	WG1445125
Methyl tert-butyl ether	ND		1.00	1	03/17/2020 04:41	WG1445125
Naphthalene	ND	<u>JO</u>	5.00	1	03/17/2020 04:41	WG1445125
1,2-Dichloroethane	ND		1.00	1	03/17/2020 04:41	WG1445125
(S) Toluene-d8	95.8		80.0-120		03/17/2020 04:41	WG1445125
(S) 4-Bromofluorobenzene	93.8		77.0-126		03/17/2020 04:41	WG1445125
(S) 1,2-Dichloroethane-d4	105		70.0-130		03/17/2020 04:41	WG1445125

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	1.43		1.00	1	03/17/2020 05:02	WG1445125
Toluene	ND		1.00	1	03/17/2020 05:02	WG1445125
Ethylbenzene	ND		1.00	1	03/17/2020 05:02	WG1445125
Total Xylenes	ND		3.00	1	03/17/2020 05:02	WG1445125
Methyl tert-butyl ether	ND		1.00	1	03/17/2020 05:02	WG1445125
Naphthalene	ND	<u>JO</u>	5.00	1	03/17/2020 05:02	WG1445125
1,2-Dichloroethane	ND		1.00	1	03/17/2020 05:02	WG1445125
(S) Toluene-d8	99.6		80.0-120		03/17/2020 05:02	WG1445125
(S) 4-Bromofluorobenzene	92.8		77.0-126		03/17/2020 05:02	WG1445125
(S) 1,2-Dichloroethane-d4	100		70.0-130		03/17/2020 05:02	WG1445125

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/16/2020 23:35	WG1445125
Toluene	ND		1.00	1	03/16/2020 23:35	WG1445125
Ethylbenzene	ND		1.00	1	03/16/2020 23:35	WG1445125
Total Xylenes	ND		3.00	1	03/16/2020 23:35	WG1445125
Methyl tert-butyl ether	ND		1.00	1	03/16/2020 23:35	WG1445125
Naphthalene	ND	<u>JO</u>	5.00	1	03/16/2020 23:35	WG1445125
1,2-Dichloroethane	ND		1.00	1	03/16/2020 23:35	WG1445125
(S) Toluene-d8	98.1		80.0-120		03/16/2020 23:35	WG1445125
(S) 4-Bromofluorobenzene	93.9		77.0-126		03/16/2020 23:35	WG1445125
(S) 1,2-Dichloroethane-d4	104		70.0-130		03/16/2020 23:35	WG1445125

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/17/2020 05:22	WG1445125
Toluene	ND		1.00	1	03/17/2020 05:22	WG1445125
Ethylbenzene	ND		1.00	1	03/17/2020 05:22	WG1445125
Total Xylenes	ND		3.00	1	03/17/2020 05:22	WG1445125
Methyl tert-butyl ether	ND		1.00	1	03/17/2020 05:22	WG1445125
Naphthalene	ND	<u>JO</u>	5.00	1	03/17/2020 05:22	WG1445125
1,2-Dichloroethane	ND		1.00	1	03/17/2020 05:22	WG1445125
(S) Toluene-d8	102		80.0-120		03/17/2020 05:22	WG1445125
(S) 4-Bromofluorobenzene	97.2		77.0-126		03/17/2020 05:22	WG1445125
(S) 1,2-Dichloroethane-d4	106		70.0-130		03/17/2020 05:22	WG1445125

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/17/2020 05:43	WG1445125
Toluene	ND		1.00	1	03/17/2020 05:43	WG1445125
Ethylbenzene	ND		1.00	1	03/17/2020 05:43	WG1445125
Total Xylenes	ND		3.00	1	03/17/2020 05:43	WG1445125
Methyl tert-butyl ether	ND		1.00	1	03/17/2020 05:43	WG1445125
Naphthalene	ND	<u>JO</u>	5.00	1	03/17/2020 05:43	WG1445125
1,2-Dichloroethane	ND		1.00	1	03/17/2020 05:43	WG1445125
(S) Toluene-d8	96.7		80.0-120		03/17/2020 05:43	WG1445125
(S) 4-Bromofluorobenzene	93.0		77.0-126		03/17/2020 05:43	WG1445125
(S) 1,2-Dichloroethane-d4	104		70.0-130		03/17/2020 05:43	WG1445125

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/17/2020 06:03	WG1445125
Toluene	ND		1.00	1	03/17/2020 06:03	WG1445125
Ethylbenzene	ND		1.00	1	03/17/2020 06:03	WG1445125
Total Xylenes	ND		3.00	1	03/17/2020 06:03	WG1445125
Methyl tert-butyl ether	ND		1.00	1	03/17/2020 06:03	WG1445125
Naphthalene	ND	<u>JO</u>	5.00	1	03/17/2020 06:03	WG1445125
1,2-Dichloroethane	ND		1.00	1	03/17/2020 06:03	WG1445125
(S) Toluene-d8	98.5		80.0-120		03/17/2020 06:03	WG1445125
(S) 4-Bromofluorobenzene	103		77.0-126		03/17/2020 06:03	WG1445125
(S) 1,2-Dichloroethane-d4	108		70.0-130		03/17/2020 06:03	WG1445125

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/16/2020 23:56	WG1445125
Toluene	ND		1.00	1	03/16/2020 23:56	WG1445125
Ethylbenzene	ND		1.00	1	03/16/2020 23:56	WG1445125
Total Xylenes	ND		3.00	1	03/16/2020 23:56	WG1445125
Methyl tert-butyl ether	ND		1.00	1	03/16/2020 23:56	WG1445125
Naphthalene	ND	<u>JO</u>	5.00	1	03/16/2020 23:56	WG1445125
1,2-Dichloroethane	ND		1.00	1	03/16/2020 23:56	WG1445125
(S) Toluene-d8	94.9		80.0-120		03/16/2020 23:56	WG1445125
(S) 4-Bromofluorobenzene	97.9		77.0-126		03/16/2020 23:56	WG1445125
(S) 1,2-Dichloroethane-d4	103		70.0-130		03/16/2020 23:56	WG1445125

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft

Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road
400 Embassy Row - Suite 600
Atlanta GA 30328

Report to:
Bethany Garvey

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Email To: bethany.garvey@jacobs.com;
tom.wiley@jacobs.com

Project
Description: **Lewis Drive Groundwater**

City/State
Collected: **BELTON, SC**

Phone: **770-604-9182**
Fax:

Client Project #
KMLD0420
Lab Project #
KINCH2MGA-LEWIS12

Collected by (print):
MELISSA WARRREN LEWIS DRIVE

Site/Facility ID #
LEWIS DRIVE

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Same Day Five Day
Next Day 5 Day (Rad Only)
Two Day 10 Day (Rad Only)
Three Day

Date Results Needed

No. of Cntrs

Immediately Packed on Ice

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NITRATE,SULFATE* 125mlHDPE-NoPres	ALK,CO2 125mlHDPE-NoPres	RSK175 40mlIAmb HCl	V8260BTEXMNSC 40mlIAmb-HCl	V8260TCLSC-TB 40mlIAmb-NoPres-Bik	Remarks	Sample # (lab only)
MW-09B-031320	GRAB	GW	N/A	03/13/20	1115	3							01
MW-36-031320		GW			0835	3							02
MW-36-D-031320		GW			0840	3							03
MW-17-031320		GW			0905	3							04
MW-30-031320		GW			0935	3							05
MW-03-031320		GW			0950	7							06
MW-32-031320		GW			1005	7							07
MW-04-031320		GW			1030	7							08
MW-02-031320		GW			1045	7							09
MW-02B-031320		GW			1055	3							10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *NITRATE/SULFATE* has a 48hr hold time.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
 UPS FedEx Courier

Tracking # **13824074524**

Sample Receipt Checklist	
COC Seal Present/Intact: <input type="checkbox"/> NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
If Applicable	
VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

RAD SCREEN: <0.5 mR/hr

Relinquished by: (Signature) **Melissa Warren** Date: **03/13/20** Time: **1600**

Received by: (Signature) _____ Trip Blank Received: Yes/No
 HCL / MeOH TBR

Relinquished by: (Signature)

Date: Time:

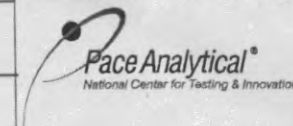
Received by: (Signature) _____ Temp: **22°C** Bottles Received: **109**

Relinquished by: (Signature)

Date: Time:

Received for lab by: (Signature) **R** Date: **3-14-20** Time: **0900**

Hold: Condition: **NCF / Q8**



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L# **119958**

Tabl **1096**

Acctnum: **KINCH2MGA**

Template: **T130277**

Prelogin: **P682251**

TSR: **526 - Chris McCord**

PB: **11-28-186**

Shipped Via: **FedEX Ground**

Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road
400 Embassy Row - Suite 600
Atlanta GA 30328

Report to:
Bethany Garvey

Billing Information:

Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Email To: bethany.garvey@jacobs.com;
tom.wiley@jacobs.com

Pres
Chk

Analysis / Container / Preservative

Analysis	Container	Preservative
NITRATE,SULFATE 125mlHDPE-NoPres		
ALK,CO2 125mlHDPE-NoPres		
RSK175 40mlAmb HCl		
V8260B/TEXMNSC 40mlAmb-HCl		
V8260TCLSC-TB 40mlAmb-NoPres-Bik		



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L# **1199158**

Table #

Acctnum: **KINCH2MGA**

Template: **T130277**

Prelogin: **P682251**

TSR: **526 - Chris McCord**

PB: **11-28-186**

Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)

Project Description: **Lewis Drive Groundwater**
City/State Collected: **BELTON, SC**

Phone: **770-604-9182**
Fax:
Client Project # **KMLDOM20**
B.C.S, GEO, LDOMA.6W
Lab Project # **KINCH2MGA-LEWIS12**

Collected by (print): **MELISSA WAMET**
Site/Facility ID # **LEWIS DRIVE**
P.O. #

Collected by (signature): *Melissa Wamet*
Rush? (Lab MUST Be Notified)
Date Results Needed

Immediately Packed on Ice N Y
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NITRATE,SULFATE* 125mlHDPE-NoPres	ALK,CO2 125mlHDPE-NoPres	RSK175 40mlAmb HCl	V8260B/TEXMNSC 40mlAmb-HCl	V8260TCLSC-TB 40mlAmb-NoPres-Bik	Remarks	Sample # (lab only)
MW-09-031320	GRAB	GW	NA	03/13/20	1120	7	X	X	X	X			11
MW-05-D-031320		GW			1145	3				X			12
MW-06-031320		GW			1150	3				X			13
MW-06B-031320		GW			1155	3				X			14
MW-10-031320		GW			1240	7	X	X	X	X			15
MW-16-031320		GW			1250	7	X	X	X	X			16
MW-18-031320		GW			1305	7	X	X	X	X			17
MW-08-031320		GW			1315	7	X	X	X	X			18
VBS-2-031320		GW			1345	3				X			19
FB04-031320		GW			1405	3				X			20

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *NITRATE/SULFATE* has a 48hr hold time.

pH _____ Temp _____
Flow _____ Other _____

Sample Receipt Checklist	
COC Seal Present/Intact:	NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
If Applicable	
VOA Zero Headpace:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Preservation Correct/Checked:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Samples returned via:
 UPS FedEx Courier

Tracking #

Relinquished by: (Signature) <i>Melissa Wamet</i>	Date: 03/13/20	Time: 1600	Received by: (Signature)	Trip Blank Received: Yes/No HCl / MeOH TBR	Temp 20 °C Bottles Received: 109	RAD SCREEN: <0.5 mR/hr
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date: 3-14-20	Time: 0900	If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 3-14-20	Time: 0900	Hold: Condition: NCF 10K

Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road
400 Embassy Row - Suite 600
Atlanta GA 30328

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Email To: bethany.garvey@jacobs.com;
tom.wiley@jacobs.com

Report to:
Bethany Garvey

Project
Description: Lewis Drive Groundwater

City/State
Collected: BELTON, SC

Phone: 770-604-9182
Fax:

Client Project #
KMLD0420
B.CS.GEN. LDOMR.6W

Lab Project #
KINCH2MGA-LEWIS12

Collected by (print):
Melissa Warren

Site/Facility ID #

P.O. #

Collected by (signature):
Melissa Warren

Rush? (Lab MUST Be Notified)

Quote #

Immediately
Packed on Ice N Y

Same Day Five Day
Next Day 5 Day (Rad Only)
Two Day 10 Day (Rad Only)
Three Day

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
MW-05-031320	GRAB	GW	NA	03/13/20	1140	3
MW-36B-031320	↓	GW	↓	↓	0845	3
VBS-3-031320	↓	GW	↓	↓	1430	3
TBOS-031320	↓	GW	↓	↓	-	1
		GW				
		GW				
		GW				
		GW				
		GW				
		GW				

Analysis / Container / Preservative										
NITRATE,SULFATE 125mlHDPE-NoPres										
ALK,CO2 125mlHDPE-NoPres										
RSK175 40mlAmb HCl										
V8260BTEXMNSC 40mlAmb-HCl										
V8260TCLSC-TB 40mlAmb-NoPres-Blk										

Chain of Custody Page 3 of 3



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L# 1199158

Table #

Acctnum: KINCH2MGA
Template: T130277
Prelogin: P682251
TSR: 526 - Chris McCord
PB: 11-28-186

Shipped Via: FedEX Ground

Remarks	Sample # (lab only)
	21
	22
	23
	24

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *NITRATE/SULFATE* has a 48hr hold time.

pH _____ Temp _____
Flow _____ Other _____

Sample Receipt Checklist	
COC Seal Present/Intact: <input checked="" type="checkbox"/> NP <input checked="" type="checkbox"/> N	
COC Signed/Accurate: <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> N	
Bottles arrive intact: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	
Correct bottles used: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	
Sufficient volume sent: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	
If Applicable	
VOA Zero Headpace: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	
Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes/No	HCL / MeOH TBR	Temp: _____ °C	Bottles Received:	If preservation required by Login: Date/Time
Melissa Warren	03/13/20	1600				10.6	105	

RAD SCREEN: <0.5 mR/hr

Condition:
NCF / OK

January 15, 2020

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Kinder Morgan- Atlanta, GA

Sample Delivery Group: L1177661
Samples Received: 01/09/2020
Project Number: KMLDOM20
Description: Lewis Drive Surface Water
Site: LEWIS DRIVE
Report To: Bethany Garvey
Ten 10th Street NW
Suite 1400
Atlanta, GA 30309

Entire Report Reviewed By:



Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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SW08-010820 L1177661-04	9
SW13-010820 L1177661-05	10
SW04-010820 L1177661-06	11
SW02-010820 L1177661-07	12
SW01-010820 L1177661-08	13
SW07-010820 L1177661-09	14
SW03-010820 L1177661-10	15
SW12-010820 L1177661-11	16
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Draft



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Project Manager

Draft

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	01/09/2020 21:01	WG1408724
Toluene	ND		1.00	1	01/09/2020 21:01	WG1408724
Ethylbenzene	ND		1.00	1	01/09/2020 21:01	WG1408724
Total Xylenes	ND		3.00	1	01/09/2020 21:01	WG1408724
Methyl tert-butyl ether	ND		1.00	1	01/09/2020 21:01	WG1408724
Naphthalene	ND		5.00	1	01/09/2020 21:01	WG1408724
1,2-Dichloroethane	ND		1.00	1	01/09/2020 21:01	WG1408724
(S) Toluene-d8	103		80.0-120		01/09/2020 21:01	WG1408724
(S) 4-Bromofluorobenzene	102		77.0-126		01/09/2020 21:01	WG1408724
(S) 1,2-Dichloroethane-d4	98.8		70.0-130		01/09/2020 21:01	WG1408724

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	01/09/2020 21:21	WG1408724
Toluene	ND		1.00	1	01/09/2020 21:21	WG1408724
Ethylbenzene	ND		1.00	1	01/09/2020 21:21	WG1408724
Total Xylenes	ND		3.00	1	01/09/2020 21:21	WG1408724
Methyl tert-butyl ether	ND		1.00	1	01/09/2020 21:21	WG1408724
Naphthalene	ND		5.00	1	01/09/2020 21:21	WG1408724
1,2-Dichloroethane	ND		1.00	1	01/09/2020 21:21	WG1408724
(S) Toluene-d8	102		80.0-120		01/09/2020 21:21	WG1408724
(S) 4-Bromofluorobenzene	101		77.0-126		01/09/2020 21:21	WG1408724
(S) 1,2-Dichloroethane-d4	102		70.0-130		01/09/2020 21:21	WG1408724

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	01/09/2020 21:42	WG1408724
Toluene	ND		1.00	1	01/09/2020 21:42	WG1408724
Ethylbenzene	ND		1.00	1	01/09/2020 21:42	WG1408724
Total Xylenes	ND		3.00	1	01/09/2020 21:42	WG1408724
Methyl tert-butyl ether	ND		1.00	1	01/09/2020 21:42	WG1408724
Naphthalene	ND		5.00	1	01/09/2020 21:42	WG1408724
1,2-Dichloroethane	ND		1.00	1	01/09/2020 21:42	WG1408724
(S) Toluene-d8	101		80.0-120		01/09/2020 21:42	WG1408724
(S) 4-Bromofluorobenzene	100		77.0-126		01/09/2020 21:42	WG1408724
(S) 1,2-Dichloroethane-d4	99.9		70.0-130		01/09/2020 21:42	WG1408724

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	01/09/2020 22:02	WG1408724
Toluene	ND		1.00	1	01/09/2020 22:02	WG1408724
Ethylbenzene	ND		1.00	1	01/09/2020 22:02	WG1408724
Total Xylenes	ND		3.00	1	01/09/2020 22:02	WG1408724
Methyl tert-butyl ether	ND		1.00	1	01/09/2020 22:02	WG1408724
Naphthalene	ND		5.00	1	01/09/2020 22:02	WG1408724
1,2-Dichloroethane	ND		1.00	1	01/09/2020 22:02	WG1408724
(S) Toluene-d8	103		80.0-120		01/09/2020 22:02	WG1408724
(S) 4-Bromofluorobenzene	102		77.0-126		01/09/2020 22:02	WG1408724
(S) 1,2-Dichloroethane-d4	100		70.0-130		01/09/2020 22:02	WG1408724

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	01/09/2020 22:23	WG1408724
Toluene	ND		1.00	1	01/09/2020 22:23	WG1408724
Ethylbenzene	ND		1.00	1	01/09/2020 22:23	WG1408724
Total Xylenes	ND		3.00	1	01/09/2020 22:23	WG1408724
Methyl tert-butyl ether	1.79		1.00	1	01/09/2020 22:23	WG1408724
Naphthalene	ND		5.00	1	01/09/2020 22:23	WG1408724
1,2-Dichloroethane	ND		1.00	1	01/09/2020 22:23	WG1408724
(S) Toluene-d8	102		80.0-120		01/09/2020 22:23	WG1408724
(S) 4-Bromofluorobenzene	101		77.0-126		01/09/2020 22:23	WG1408724
(S) 1,2-Dichloroethane-d4	99.7		70.0-130		01/09/2020 22:23	WG1408724

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	01/09/2020 22:43	WG1408724
Toluene	ND		1.00	1	01/09/2020 22:43	WG1408724
Ethylbenzene	ND		1.00	1	01/09/2020 22:43	WG1408724
Total Xylenes	ND		3.00	1	01/09/2020 22:43	WG1408724
Methyl tert-butyl ether	ND		1.00	1	01/09/2020 22:43	WG1408724
Naphthalene	ND		5.00	1	01/09/2020 22:43	WG1408724
1,2-Dichloroethane	ND		1.00	1	01/09/2020 22:43	WG1408724
(S) Toluene-d8	101		80.0-120		01/09/2020 22:43	WG1408724
(S) 4-Bromofluorobenzene	99.2		77.0-126		01/09/2020 22:43	WG1408724
(S) 1,2-Dichloroethane-d4	99.2		70.0-130		01/09/2020 22:43	WG1408724

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	7.25		1.00	1	01/09/2020 23:04	WG1408724
Toluene	ND		1.00	1	01/09/2020 23:04	WG1408724
Ethylbenzene	ND		1.00	1	01/09/2020 23:04	WG1408724
Total Xylenes	ND		3.00	1	01/09/2020 23:04	WG1408724
Methyl tert-butyl ether	1.89		1.00	1	01/09/2020 23:04	WG1408724
Naphthalene	ND		5.00	1	01/09/2020 23:04	WG1408724
1,2-Dichloroethane	ND		1.00	1	01/09/2020 23:04	WG1408724
(S) Toluene-d8	102		80.0-120		01/09/2020 23:04	WG1408724
(S) 4-Bromofluorobenzene	105		77.0-126		01/09/2020 23:04	WG1408724
(S) 1,2-Dichloroethane-d4	99.9		70.0-130		01/09/2020 23:04	WG1408724

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	1.49		1.00	1	01/09/2020 23:25	WG1408724
Toluene	ND		1.00	1	01/09/2020 23:25	WG1408724
Ethylbenzene	ND		1.00	1	01/09/2020 23:25	WG1408724
Total Xylenes	ND		3.00	1	01/09/2020 23:25	WG1408724
Methyl tert-butyl ether	ND		1.00	1	01/09/2020 23:25	WG1408724
Naphthalene	ND		5.00	1	01/09/2020 23:25	WG1408724
1,2-Dichloroethane	ND		1.00	1	01/09/2020 23:25	WG1408724
(S) Toluene-d8	103		80.0-120		01/09/2020 23:25	WG1408724
(S) 4-Bromofluorobenzene	103		77.0-126		01/09/2020 23:25	WG1408724
(S) 1,2-Dichloroethane-d4	99.3		70.0-130		01/09/2020 23:25	WG1408724

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	01/09/2020 23:45	WG1408724
Toluene	ND		1.00	1	01/09/2020 23:45	WG1408724
Ethylbenzene	ND		1.00	1	01/09/2020 23:45	WG1408724
Total Xylenes	ND		3.00	1	01/09/2020 23:45	WG1408724
Methyl tert-butyl ether	ND		1.00	1	01/09/2020 23:45	WG1408724
Naphthalene	ND		5.00	1	01/09/2020 23:45	WG1408724
1,2-Dichloroethane	ND		1.00	1	01/09/2020 23:45	WG1408724
(S) Toluene-d8	102		80.0-120		01/09/2020 23:45	WG1408724
(S) 4-Bromofluorobenzene	99.3		77.0-126		01/09/2020 23:45	WG1408724
(S) 1,2-Dichloroethane-d4	98.4		70.0-130		01/09/2020 23:45	WG1408724

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	01/10/2020 00:06	WG1408724
Toluene	ND		1.00	1	01/10/2020 00:06	WG1408724
Ethylbenzene	ND		1.00	1	01/10/2020 00:06	WG1408724
Total Xylenes	ND		3.00	1	01/10/2020 00:06	WG1408724
Methyl tert-butyl ether	ND		1.00	1	01/10/2020 00:06	WG1408724
Naphthalene	ND		5.00	1	01/10/2020 00:06	WG1408724
1,2-Dichloroethane	ND		1.00	1	01/10/2020 00:06	WG1408724
(S) Toluene-d8	103		80.0-120		01/10/2020 00:06	WG1408724
(S) 4-Bromofluorobenzene	102		77.0-126		01/10/2020 00:06	WG1408724
(S) 1,2-Dichloroethane-d4	101		70.0-130		01/10/2020 00:06	WG1408724

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	1.36		1.00	1	01/10/2020 00:26	WG1408724
Toluene	ND		1.00	1	01/10/2020 00:26	WG1408724
Ethylbenzene	ND		1.00	1	01/10/2020 00:26	WG1408724
Total Xylenes	ND		3.00	1	01/10/2020 00:26	WG1408724
Methyl tert-butyl ether	ND		1.00	1	01/10/2020 00:26	WG1408724
Naphthalene	ND		5.00	1	01/10/2020 00:26	WG1408724
1,2-Dichloroethane	ND		1.00	1	01/10/2020 00:26	WG1408724
(S) Toluene-d8	101		80.0-120		01/10/2020 00:26	WG1408724
(S) 4-Bromofluorobenzene	102		77.0-126		01/10/2020 00:26	WG1408724
(S) 1,2-Dichloroethane-d4	100		70.0-130		01/10/2020 00:26	WG1408724

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	01/10/2020 00:47	WG1408724
Toluene	ND		1.00	1	01/10/2020 00:47	WG1408724
Ethylbenzene	ND		1.00	1	01/10/2020 00:47	WG1408724
Total Xylenes	ND		3.00	1	01/10/2020 00:47	WG1408724
Methyl tert-butyl ether	ND		1.00	1	01/10/2020 00:47	WG1408724
Naphthalene	ND		5.00	1	01/10/2020 00:47	WG1408724
1,2-Dichloroethane	ND		1.00	1	01/10/2020 00:47	WG1408724
(S) Toluene-d8	101		80.0-120		01/10/2020 00:47	WG1408724
(S) 4-Bromofluorobenzene	102		77.0-126		01/10/2020 00:47	WG1408724
(S) 1,2-Dichloroethane-d4	101		70.0-130		01/10/2020 00:47	WG1408724

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	01/10/2020 01:08	WG1408724
Toluene	ND		1.00	1	01/10/2020 01:08	WG1408724
Ethylbenzene	ND		1.00	1	01/10/2020 01:08	WG1408724
Total Xylenes	ND		3.00	1	01/10/2020 01:08	WG1408724
Methyl tert-butyl ether	ND		1.00	1	01/10/2020 01:08	WG1408724
Naphthalene	ND		5.00	1	01/10/2020 01:08	WG1408724
1,2-Dichloroethane	ND		1.00	1	01/10/2020 01:08	WG1408724
(S) Toluene-d8	105		80.0-120		01/10/2020 01:08	WG1408724
(S) 4-Bromofluorobenzene	101		77.0-126		01/10/2020 01:08	WG1408724
(S) 1,2-Dichloroethane-d4	100		70.0-130		01/10/2020 01:08	WG1408724

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft


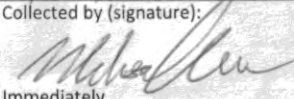
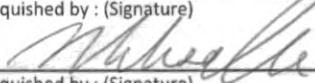
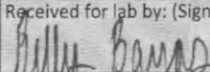


Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	01/09/2020 19:40	WG1408724
Toluene	ND		1.00	1	01/09/2020 19:40	WG1408724
Ethylbenzene	ND		1.00	1	01/09/2020 19:40	WG1408724
Total Xylenes	ND		3.00	1	01/09/2020 19:40	WG1408724
Methyl tert-butyl ether	ND		1.00	1	01/09/2020 19:40	WG1408724
Naphthalene	ND		5.00	1	01/09/2020 19:40	WG1408724
1,2-Dichloroethane	ND		1.00	1	01/09/2020 19:40	WG1408724
(S) Toluene-d8	104		80.0-120		01/09/2020 19:40	WG1408724
(S) 4-Bromofluorobenzene	101		77.0-126		01/09/2020 19:40	WG1408724
(S) 1,2-Dichloroethane-d4	100		70.0-130		01/09/2020 19:40	WG1408724

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft

Kinder Morgan- Atlanta, GA 6600 Peachtree Dunwoody Road 400 Embassy Row - Suite 600 Atlanta, GA 30328		Billing Information: Accounts Payable 1000 Windward Concourse Ste 450 Alpharetta, GA 30005		Analysis / Container / Preservative										Chain of Custody Page <u>1</u> of <u>2</u>					
		Report to: Bethany Garvey		Email To: bethany.garvey@jacobs.com; tom.wiley@jacobs.com		Pres Chk <input checked="" type="checkbox"/>										 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859			
Project Description: Lewis Drive Groundwater SURFACE WATER		City/State Collected: BELTON, SC		V8260BTEXMNSC 40mIAmb-HCl V8260BTEXMNSC-TB 40mIAmb-HCl-BIK										L# L1177661					
Phone: 770-604-9182 Fax:		Client Project # 14MLD0M20 B.CS.CEN.LDDMR.SW												Lab Project # KINCH2MGA-LEWIS12		Table # M198			
Collected by (print): MELISSA WARREN		Site/Facility ID # LEWIS DRIVE		P.O. #		Acctnum: KINCH2MGA													
Collected by (signature): 		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Quote #		Template: T131319													
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>		Date Results Needed		No. of Cntrs		Prelogin: P708636													
Shipped Via: FedEX Standard		Remarks		Sample # (lab only)		TSR: 526 - Chris McCord													
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs												
SW11-010820		GRAB	GW	N/A	01/08/20	1150	3	<input checked="" type="checkbox"/>											
SW10-010820		↓	GW	↓	↓	1200	3	<input checked="" type="checkbox"/>											
SW09-010820		↓	GW	↓	↓	1210	3	<input checked="" type="checkbox"/>											
SW08-010820		↓	GW	↓	↓	1220	3	<input checked="" type="checkbox"/>											
SW13-010820		↓	GW	↓	↓	1230	3	<input checked="" type="checkbox"/>											
SW04-010820		↓	GW	↓	↓	1245	3	<input checked="" type="checkbox"/>											
SW02-010820		↓	GW	↓	↓	1250	3	<input checked="" type="checkbox"/>											
SW01-010820		↓	GW	↓	↓	1310	3	<input checked="" type="checkbox"/>											
SW07-010820		↓	GW	↓	↓	1320	3	<input checked="" type="checkbox"/>											
SW03-010820		↓	GW	↓	↓	1335	3	<input checked="" type="checkbox"/>											
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: V8260BTEXMNSC = BTEX, MTBE, Naphthalene, 1,2-DCA		Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier		Tracking # 4876 1079 9211		pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> NP <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> <input type="checkbox"/> N RAD SCREEN: <0.5 mR/hr									
Relinquished by: (Signature) 		Date: 01/08/20	Time: 1630	Received by: (Signature) 		Trip Blank Received: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> HCL <input type="checkbox"/> MeOH <input type="checkbox"/> TBR		Temp: Asm°C		Bottles Received: 39		If preservation required by Login: Date/Time							
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature)		Date: 1/9/20	Time: 0830	Hold:		Condition: NCF / <input checked="" type="checkbox"/> OK									

Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road
400 Embassy Row - Suite 600
Atlanta GA 30328

Report to:
Bethany Garvey

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Email To: bethany.garvey@jacobs.com;
tom.wiley@jacobs.com

Project Description: **Lewis Drive Groundwater SURFACE WATER**

Phone: **770-604-9182**
Fax:

Client Project #
KMLDOM 20
B. CS. GEN. WDOMR. SW

City/State Collected: **BELTON, SC**

Lab Project #
KINCH2MGA-LEWIS12

P.O. #

Quote #

Collected by (print):
MEUSSA WAMEK

Site/Facility ID #
LEWIS DRIVE

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Date Results Needed

No. of Cntrs

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 2



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L# **L117661**
Table #
Acctnum: **KINCH2MGA**
Template: **T131319**
Prelogin: **P708636**
TSR: **526 - Chris McCord**
PB:
Shipped Via: **FedEX Standard**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Pres	Chk	Remarks	Sample # (lab only)
SW12-010820	GRAB	GW	NA	01/08/20	1345	3	X			-11
SW14-010820	↓	GW	↓	↓	1445	3	X			-12
SW05-010820	↓	GW	↓	↓	1455	3	X			-13
TB01-010820	↓	GW	↓	↓	NO TIME	1	X	X	TRIP BLANK	-14
		GW				3	X			
		GW				3	X			
		GW				3	X			
		GW				3	X			
		GW				3	X			
		GW				3	X			

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: V8260BTEXMNSC = BTEX, MTBE, Naphthalene, 1,2-PCA

pH _____ Temp _____
Flow _____ Other _____

Sample Receipt Checklist
 COC Seal Present/Intact: Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 If Applicable
 VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N

Samples returned via:
 UPS FedEx Courier

Tracking # **4876 1079 9211**

Relinquished by: (Signature) <i>[Signature]</i>	Date: 01/08/20	Time: 1630	Received by: (Signature)	Trip Blank Received: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> HCL <input type="checkbox"/> MeOH <input type="checkbox"/> TBR	RAD SCREEN: <0.5 mR/hr
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 12.0 °C 0.1172=0.13	Bottles Received: 39
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Billy Bauso	Date: 1/9/20	Time: 0830

If preservation required by Login: Date/Time
Hold: Condition: **NCF / OK**

Kinder Morgan- Atlanta, GA

Sample Delivery Group: L1187944
Samples Received: 02/11/2020
Project Number: KMLDON 20 B.CS.GEN.L
Description: Lewis Drive Surface Water
Site: LEWIS DRIVE
Report To: Bethany Garvey
Ten 10th Street NW
Suite 1400
Atlanta, GA 30309

Entire Report Reviewed By:



Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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1 Cp
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4 Cn
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Draft



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Project Manager

Draft

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	02/12/2020 01:01	WG1426269
Toluene	ND		1.00	1	02/12/2020 01:01	WG1426269
Ethylbenzene	ND		1.00	1	02/12/2020 01:01	WG1426269
o-Xylene	ND		1.00	1	02/12/2020 01:01	WG1426269
m&p-Xylene	ND		2.00	1	02/12/2020 01:01	WG1426269
Total Xylenes	ND		3.00	1	02/12/2020 01:01	WG1426269
Methyl tert-butyl ether	ND		1.00	1	02/12/2020 01:01	WG1426269
Naphthalene	ND		5.00	1	02/12/2020 01:01	WG1426269
(S) Toluene-d8	106		80.0-120		02/12/2020 01:01	WG1426269
(S) 4-Bromofluorobenzene	92.4		77.0-126		02/12/2020 01:01	WG1426269
(S) 1,2-Dichloroethane-d4	98.1		70.0-130		02/12/2020 01:01	WG1426269

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	02/12/2020 01:20	WG1426269
Toluene	ND		1.00	1	02/12/2020 01:20	WG1426269
Ethylbenzene	ND		1.00	1	02/12/2020 01:20	WG1426269
o-Xylene	ND		1.00	1	02/12/2020 01:20	WG1426269
m&p-Xylene	ND		2.00	1	02/12/2020 01:20	WG1426269
Total Xylenes	ND		3.00	1	02/12/2020 01:20	WG1426269
Methyl tert-butyl ether	ND		1.00	1	02/12/2020 01:20	WG1426269
Naphthalene	ND		5.00	1	02/12/2020 01:20	WG1426269
(S) Toluene-d8	107		80.0-120		02/12/2020 01:20	WG1426269
(S) 4-Bromofluorobenzene	94.4		77.0-126		02/12/2020 01:20	WG1426269
(S) 1,2-Dichloroethane-d4	97.2		70.0-130		02/12/2020 01:20	WG1426269

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Sulfate	7070		5000	1	02/13/2020 17:24	WG1426152

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	4.44		1.00	1	02/12/2020 01:40	WG1426269
Toluene	ND		1.00	1	02/12/2020 01:40	WG1426269
Ethylbenzene	ND		1.00	1	02/12/2020 01:40	WG1426269
o-Xylene	ND		1.00	1	02/12/2020 01:40	WG1426269
m&p-Xylene	ND		2.00	1	02/12/2020 01:40	WG1426269
Total Xylenes	ND		3.00	1	02/12/2020 01:40	WG1426269
Methyl tert-butyl ether	1.50		1.00	1	02/12/2020 01:40	WG1426269
Naphthalene	ND		5.00	1	02/12/2020 01:40	WG1426269
(S) Toluene-d8	109		80.0-120		02/12/2020 01:40	WG1426269
(S) 4-Bromofluorobenzene	92.7		77.0-126		02/12/2020 01:40	WG1426269
(S) 1,2-Dichloroethane-d4	98.3		70.0-130		02/12/2020 01:40	WG1426269

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Sulfate	ND		5000	1	02/13/2020 17:59	WG1426152

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	02/12/2020 01:59	WG1426269
Toluene	ND		1.00	1	02/12/2020 01:59	WG1426269
Ethylbenzene	ND		1.00	1	02/12/2020 01:59	WG1426269
o-Xylene	ND		1.00	1	02/12/2020 01:59	WG1426269
m&p-Xylene	ND		2.00	1	02/12/2020 01:59	WG1426269
Total Xylenes	ND		3.00	1	02/12/2020 01:59	WG1426269
Methyl tert-butyl ether	ND		1.00	1	02/12/2020 01:59	WG1426269
Naphthalene	ND		5.00	1	02/12/2020 01:59	WG1426269
(S) Toluene-d8	107		80.0-120		02/12/2020 01:59	WG1426269
(S) 4-Bromofluorobenzene	94.5		77.0-126		02/12/2020 01:59	WG1426269
(S) 1,2-Dichloroethane-d4	99.1		70.0-130		02/12/2020 01:59	WG1426269

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Sulfate	ND		5000	1	02/13/2020 18:53	WG1426152

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	23.7		1.00	1	02/12/2020 02:18	WG1426269
Toluene	1.92		1.00	1	02/12/2020 02:18	WG1426269
Ethylbenzene	ND		1.00	1	02/12/2020 02:18	WG1426269
o-Xylene	3.03		1.00	1	02/12/2020 02:18	WG1426269
m&p-Xylene	4.60		2.00	1	02/12/2020 02:18	WG1426269
Total Xylenes	7.63		3.00	1	02/12/2020 02:18	WG1426269
Methyl tert-butyl ether	1.37		1.00	1	02/12/2020 02:18	WG1426269
Naphthalene	ND		5.00	1	02/12/2020 02:18	WG1426269
(S) Toluene-d8	107		80.0-120		02/12/2020 02:18	WG1426269
(S) 4-Bromofluorobenzene	98.3		77.0-126		02/12/2020 02:18	WG1426269
(S) 1,2-Dichloroethane-d4	95.2		70.0-130		02/12/2020 02:18	WG1426269

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Sulfate	14100		5000	1	02/13/2020 19:11	WG1426152

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	02/12/2020 02:37	WG1426269
Toluene	ND		1.00	1	02/12/2020 02:37	WG1426269
Ethylbenzene	ND		1.00	1	02/12/2020 02:37	WG1426269
o-Xylene	ND		1.00	1	02/12/2020 02:37	WG1426269
m&p-Xylene	ND		2.00	1	02/12/2020 02:37	WG1426269
Total Xylenes	ND		3.00	1	02/12/2020 02:37	WG1426269
Methyl tert-butyl ether	ND		1.00	1	02/12/2020 02:37	WG1426269
Naphthalene	ND		5.00	1	02/12/2020 02:37	WG1426269
(S) Toluene-d8	106		80.0-120		02/12/2020 02:37	WG1426269
(S) 4-Bromofluorobenzene	94.6		77.0-126		02/12/2020 02:37	WG1426269
(S) 1,2-Dichloroethane-d4	99.7		70.0-130		02/12/2020 02:37	WG1426269

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Sulfate	ND		5000	1	02/13/2020 19:29	WG1426152

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	02/12/2020 02:57	WG1426269
Toluene	ND		1.00	1	02/12/2020 02:57	WG1426269
Ethylbenzene	ND		1.00	1	02/12/2020 02:57	WG1426269
o-Xylene	ND		1.00	1	02/12/2020 02:57	WG1426269
m&p-Xylene	ND		2.00	1	02/12/2020 02:57	WG1426269
Total Xylenes	ND		3.00	1	02/12/2020 02:57	WG1426269
Methyl tert-butyl ether	ND		1.00	1	02/12/2020 02:57	WG1426269
Naphthalene	ND		5.00	1	02/12/2020 02:57	WG1426269
(S) Toluene-d8	108		80.0-120		02/12/2020 02:57	WG1426269
(S) 4-Bromofluorobenzene	93.3		77.0-126		02/12/2020 02:57	WG1426269
(S) 1,2-Dichloroethane-d4	102		70.0-130		02/12/2020 02:57	WG1426269

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	02/12/2020 03:16	WG1426269
Toluene	ND		1.00	1	02/12/2020 03:16	WG1426269
Ethylbenzene	ND		1.00	1	02/12/2020 03:16	WG1426269
o-Xylene	ND		1.00	1	02/12/2020 03:16	WG1426269
m&p-Xylene	ND		2.00	1	02/12/2020 03:16	WG1426269
Total Xylenes	ND		3.00	1	02/12/2020 03:16	WG1426269
Methyl tert-butyl ether	ND		1.00	1	02/12/2020 03:16	WG1426269
Naphthalene	ND		5.00	1	02/12/2020 03:16	WG1426269
(S) Toluene-d8	109		80.0-120		02/12/2020 03:16	WG1426269
(S) 4-Bromofluorobenzene	92.4		77.0-126		02/12/2020 03:16	WG1426269
(S) 1,2-Dichloroethane-d4	94.6		70.0-130		02/12/2020 03:16	WG1426269

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	02/12/2020 03:36	WG1426269
Toluene	ND		1.00	1	02/12/2020 03:36	WG1426269
Ethylbenzene	ND		1.00	1	02/12/2020 03:36	WG1426269
o-Xylene	ND		1.00	1	02/12/2020 03:36	WG1426269
m&p-Xylene	ND		2.00	1	02/12/2020 03:36	WG1426269
Total Xylenes	ND		3.00	1	02/12/2020 03:36	WG1426269
Methyl tert-butyl ether	ND		1.00	1	02/12/2020 03:36	WG1426269
Naphthalene	ND		5.00	1	02/12/2020 03:36	WG1426269
(S) Toluene-d8	110		80.0-120		02/12/2020 03:36	WG1426269
(S) 4-Bromofluorobenzene	91.9		77.0-126		02/12/2020 03:36	WG1426269
(S) 1,2-Dichloroethane-d4	90.4		70.0-130		02/12/2020 03:36	WG1426269

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	02/11/2020 23:45	WG1426269
Toluene	ND		1.00	1	02/11/2020 23:45	WG1426269
Ethylbenzene	ND		1.00	1	02/11/2020 23:45	WG1426269
o-Xylene	ND		1.00	1	02/11/2020 23:45	WG1426269
m&p-Xylene	ND		2.00	1	02/11/2020 23:45	WG1426269
Total Xylenes	ND		3.00	1	02/11/2020 23:45	WG1426269
Methyl tert-butyl ether	ND		1.00	1	02/11/2020 23:45	WG1426269
Naphthalene	ND		5.00	1	02/11/2020 23:45	WG1426269
(S) Toluene-d8	108		80.0-120		02/11/2020 23:45	WG1426269
(S) 4-Bromofluorobenzene	91.7		77.0-126		02/11/2020 23:45	WG1426269
(S) 1,2-Dichloroethane-d4	97.4		70.0-130		02/11/2020 23:45	WG1426269

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	8.05		1.00	1	02/12/2020 03:55	WG1426269
Toluene	ND		1.00	1	02/12/2020 03:55	WG1426269
Ethylbenzene	ND		1.00	1	02/12/2020 03:55	WG1426269
o-Xylene	1.19		1.00	1	02/12/2020 03:55	WG1426269
m&p-Xylene	ND		2.00	1	02/12/2020 03:55	WG1426269
Total Xylenes	ND		3.00	1	02/12/2020 03:55	WG1426269
Methyl tert-butyl ether	ND		1.00	1	02/12/2020 03:55	WG1426269
Naphthalene	ND		5.00	1	02/12/2020 03:55	WG1426269
(S) Toluene-d8	108		80.0-120		02/12/2020 03:55	WG1426269
(S) 4-Bromofluorobenzene	95.7		77.0-126		02/12/2020 03:55	WG1426269
(S) 1,2-Dichloroethane-d4	95.9		70.0-130		02/12/2020 03:55	WG1426269

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



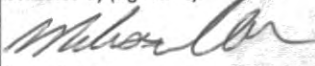

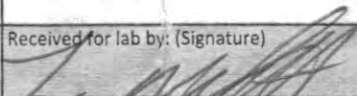


Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	18.9		1.00	1	02/12/2020 04:14	WG1426269
Toluene	2.68		1.00	1	02/12/2020 04:14	WG1426269
Ethylbenzene	1.54		1.00	1	02/12/2020 04:14	WG1426269
o-Xylene	5.13		1.00	1	02/12/2020 04:14	WG1426269
m&p-Xylene	20.7		2.00	1	02/12/2020 04:14	WG1426269
Total Xylenes	25.8		3.00	1	02/12/2020 04:14	WG1426269
Methyl tert-butyl ether	2.39		1.00	1	02/12/2020 04:14	WG1426269
Naphthalene	ND		5.00	1	02/12/2020 04:14	WG1426269
(S) Toluene-d8	109		80.0-120		02/12/2020 04:14	WG1426269
(S) 4-Bromofluorobenzene	100		77.0-126		02/12/2020 04:14	WG1426269
(S) 1,2-Dichloroethane-d4	91.1		70.0-130		02/12/2020 04:14	WG1426269

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft

Kinder Morgan- Atlanta, GA Ten 10th Street NW Suite 1400 Atlanta GA 30309		Billing Information: Accounts Payable 1000 Windward Concourse Ste 450 Alpharetta, GA 30005		Report to: Bethany Garvey		Email To: bethany.garvey@jacobs.com ; tom.wiley@jacobs.com		Analysis / Container / Preservative		Chain of Custody Page 1 of 2  12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 			
Project Description: Lewis Drive Surface Water		City/State Collected: BELTON, SC		Please Circle: PT MT CT ET		Pres Chk Y		V8260BTEXMNSC 40mlAmb-HCl SULFATE USEPA 9056A		SDG # L1187944 J007			
Phone: 770-604-9182 Fax:		Client Project # KMLDGN20 B.CS.GEN.WDGMRSW		Lab Project # KINCH2MGA-LEWIS		P.O. #		Acctnum: KINCH2MGA Template: T155770		Prelogin: P754957 PM: 526 - Chris McCord PB: 2-5-2020			
Collected by (print): MELISSA WALTER		Site/Facility ID # LEWIS DRIVE		Quote #		Date Results Needed		No. of Cntrs		Shipped Via: FedEx Ground			
Collected by (signature): 		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>		No. of Cntrs		Remarks		Sample # (lab only)			
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time								
SW11-021020	GRAB	GW	NA	02/10/20	1145	3	X						
SW10-021020		GW			1200	3	X						
SW09-021020		GW			1215	3	X						
SW13-021020		GW			1235	34	X	X					
SW04-021020		GW			1528	34	X	X					
SW02-021020		GW			1530	34	X	X		TIME 1542			
SW14-021020		GW			1630	34	X	X					
SW05-021020		GW			1630	34	X	X		TIME 1656			
SW07-021020		GW			1530	3	X						
SW03-021020		GW			1540	3	X						
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: V8260BTEXMNSC=BTEX + Naphthalene + MTBE.		pH _____ Temp _____ Flow _____ Other _____		Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier		Tracking # 1382 4821 9294		Sample Receipt Checklist COC Seal Present/Intact: <input type="checkbox"/> NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N			
Relinquished by: (Signature) 		Date: 2/10/20		Time: 1830		Received by: (Signature) 		Trip Blank Received: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> HCL / MeOH <input type="checkbox"/> TBR		Temp: 14.3 °C 7+2=9		Bottles Received: 41	
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Date: 2/10/20		Time: 8.45		Hold:	
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature)		Date:		Time:		Condition: NCF 10K	

Kinder Morgan- Atlanta, GA

Ten 10th Street NW
Suite 1400
Atlanta GA 30309

Report to:
Bethany Garvey

Billing Information:
Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Email To: bethany.garvey@jacobs.com;
tom.wiley@jacobs.com

Project
Description: **Lewis Drive Surface Water**

City/State
Collected: **BELTON, SC**

Please Circle:
PT MT CT ET

Phone: **770-604-9182**
Fax:

Client Project #
KMLDOM 20
B.C.S. GEN. WDMR. SW

Lab Project #
KINCH2MGA-LEWIS

Collected by (print):
MELISSA WARRER

Site/Facility ID #
LEWIS DRIVE

P.O. #

Collected by (signature):
Melissa Warner

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #
Date Results Needed

Immediately
Packed on Ice N Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Pres Chk	Analysis / Container / Preservative
TB01-021020	FNAB3	GW	NA	02/10/20	No Time	3	X	V8260BTEXMNSC 40ml/Amb-HCl
SW08-021020	↓	GW	NA	↓	1220	3	X	TRIP BLANK
SW12-021020	↓	GW	↓	↓	1600	3	X	
		GW				3	X	
		GW				3	X	

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: V8260BTEXMNSC=BTEX + Naphthalene + MTBE.

pH _____ Temp _____
Flow _____ Other _____

Sample Receipt Checklist	
COC Seal Present/intact:	NP <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
If Applicable	
VOA Zero Headspace:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Preservation Correct/Checked:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
RAD Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Samples returned via:
 UPS FedEx Courier

Tracking # **1382 4821 9294**

Relinquished by: (Signature)
Melissa Warner

Date: **2/10/20**

Time: **1830**

Received by: (Signature)

Trip Blank Received: Yes / No
HC / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: **43.2 ± 0.9** °C
Bottles Received: **41**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)
J. White

Date: **2/11/20** Time: **08.45**

Hold:

Condition:
NCF OK



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



SDG # **L1187944**

Table #

Acctnum: **KINCH2MGA**

Template: **T155770**

Prelogin: **P754957**

PM: **526 - Chris McCord**

PB: **2-5-2020**

Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)

-11

-12

-13

Kinder Morgan- Atlanta, GA

Sample Delivery Group: L1198760
Samples Received: 03/13/2020
Project Number: KMLDOM20 B CS
Description: Lewis Drive Surface Water
Site: LEWIS DRIVE
Report To: Bethany Garvey
Ten 10th Street NW
Suite 1400
Atlanta, GA 30309

Entire Report Reviewed By:



Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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SW14-031220 L1198760-05	10
SW04-031220 L1198760-06	11
SW01-031220 L1198760-07	12
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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Draft



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Project Manager

Draft

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/14/2020 22:47	WG1444259
Toluene	ND		1.00	1	03/14/2020 22:47	WG1444259
Ethylbenzene	ND		1.00	1	03/14/2020 22:47	WG1444259
o-Xylene	ND		1.00	1	03/14/2020 22:47	WG1444259
m&p-Xylene	ND		2.00	1	03/14/2020 22:47	WG1444259
Total Xylenes	ND		3.00	1	03/14/2020 22:47	WG1444259
Methyl tert-butyl ether	ND		1.00	1	03/14/2020 22:47	WG1444259
Naphthalene	ND		5.00	1	03/19/2020 23:19	WG1446546
(S) Toluene-d8	109		80.0-120		03/14/2020 22:47	WG1444259
(S) Toluene-d8	109		80.0-120		03/19/2020 23:19	WG1446546
(S) 4-Bromofluorobenzene	96.4		77.0-126		03/14/2020 22:47	WG1444259
(S) 4-Bromofluorobenzene	109		77.0-126		03/19/2020 23:19	WG1446546
(S) 1,2-Dichloroethane-d4	115		70.0-130		03/14/2020 22:47	WG1444259
(S) 1,2-Dichloroethane-d4	108		70.0-130		03/19/2020 23:19	WG1446546

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/14/2020 23:49	WG1444259
Toluene	ND		1.00	1	03/14/2020 23:49	WG1444259
Ethylbenzene	ND		1.00	1	03/14/2020 23:49	WG1444259
o-Xylene	ND		1.00	1	03/14/2020 23:49	WG1444259
m&p-Xylene	ND		2.00	1	03/14/2020 23:49	WG1444259
Total Xylenes	ND		3.00	1	03/14/2020 23:49	WG1444259
Methyl tert-butyl ether	ND		1.00	1	03/14/2020 23:49	WG1444259
Naphthalene	ND		5.00	1	03/20/2020 00:20	WG1446546
(S) Toluene-d8	102		80.0-120		03/14/2020 23:49	WG1444259
(S) Toluene-d8	113		80.0-120		03/20/2020 00:20	WG1446546
(S) 4-Bromofluorobenzene	92.9		77.0-126		03/14/2020 23:49	WG1444259
(S) 4-Bromofluorobenzene	105		77.0-126		03/20/2020 00:20	WG1446546
(S) 1,2-Dichloroethane-d4	121		70.0-130		03/14/2020 23:49	WG1444259
(S) 1,2-Dichloroethane-d4	105		70.0-130		03/20/2020 00:20	WG1446546

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/15/2020 00:09	WG1444259
Toluene	ND		1.00	1	03/15/2020 00:09	WG1444259
Ethylbenzene	ND		1.00	1	03/15/2020 00:09	WG1444259
o-Xylene	ND		1.00	1	03/15/2020 00:09	WG1444259
m&p-Xylene	ND		2.00	1	03/15/2020 00:09	WG1444259
Total Xylenes	ND		3.00	1	03/15/2020 00:09	WG1444259
Methyl tert-butyl ether	ND		1.00	1	03/15/2020 00:09	WG1444259
Naphthalene	ND		5.00	1	03/20/2020 00:40	WG1446546
(S) Toluene-d8	105		80.0-120		03/15/2020 00:09	WG1444259
(S) Toluene-d8	116		80.0-120		03/20/2020 00:40	WG1446546
(S) 4-Bromofluorobenzene	92.1		77.0-126		03/15/2020 00:09	WG1444259
(S) 4-Bromofluorobenzene	103		77.0-126		03/20/2020 00:40	WG1446546
(S) 1,2-Dichloroethane-d4	115		70.0-130		03/15/2020 00:09	WG1444259
(S) 1,2-Dichloroethane-d4	102		70.0-130		03/20/2020 00:40	WG1446546

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/15/2020 00:30	WG1444259
Toluene	ND		1.00	1	03/15/2020 00:30	WG1444259
Ethylbenzene	ND		1.00	1	03/15/2020 00:30	WG1444259
o-Xylene	ND		1.00	1	03/15/2020 00:30	WG1444259
m&p-Xylene	ND		2.00	1	03/15/2020 00:30	WG1444259
Total Xylenes	ND		3.00	1	03/15/2020 00:30	WG1444259
Methyl tert-butyl ether	1.20		1.00	1	03/15/2020 00:30	WG1444259
Naphthalene	ND		5.00	1	03/20/2020 01:01	WG1446546
(S) Toluene-d8	103		80.0-120		03/15/2020 00:30	WG1444259
(S) Toluene-d8	113		80.0-120		03/20/2020 01:01	WG1446546
(S) 4-Bromofluorobenzene	94.4		77.0-126		03/15/2020 00:30	WG1444259
(S) 4-Bromofluorobenzene	107		77.0-126		03/20/2020 01:01	WG1446546
(S) 1,2-Dichloroethane-d4	116		70.0-130		03/15/2020 00:30	WG1444259
(S) 1,2-Dichloroethane-d4	105		70.0-130		03/20/2020 01:01	WG1446546

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Sulfate	9660		5000	1	03/17/2020 02:14	WG1444547

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/15/2020 00:50	WG1444259
Toluene	ND		1.00	1	03/15/2020 00:50	WG1444259
Ethylbenzene	ND		1.00	1	03/15/2020 00:50	WG1444259
o-Xylene	ND		1.00	1	03/15/2020 00:50	WG1444259
m&p-Xylene	ND		2.00	1	03/15/2020 00:50	WG1444259
Total Xylenes	ND		3.00	1	03/15/2020 00:50	WG1444259
Methyl tert-butyl ether	ND		1.00	1	03/15/2020 00:50	WG1444259
Naphthalene	ND		5.00	1	03/20/2020 01:21	WG1446546
(S) Toluene-d8	101		80.0-120		03/15/2020 00:50	WG1444259
(S) Toluene-d8	115		80.0-120		03/20/2020 01:21	WG1446546
(S) 4-Bromofluorobenzene	91.3		77.0-126		03/15/2020 00:50	WG1444259
(S) 4-Bromofluorobenzene	105		77.0-126		03/20/2020 01:21	WG1446546
(S) 1,2-Dichloroethane-d4	117		70.0-130		03/15/2020 00:50	WG1444259
(S) 1,2-Dichloroethane-d4	105		70.0-130		03/20/2020 01:21	WG1446546

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Sulfate	ND		5000	1	03/17/2020 02:32	WG1444547

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	5.97		1.00	1	03/15/2020 01:10	WG1444259
Toluene	1.09		1.00	1	03/15/2020 01:10	WG1444259
Ethylbenzene	ND		1.00	1	03/15/2020 01:10	WG1444259
o-Xylene	1.09		1.00	1	03/15/2020 01:10	WG1444259
m&p-Xylene	ND		2.00	1	03/15/2020 01:10	WG1444259
Total Xylenes	ND		3.00	1	03/15/2020 01:10	WG1444259
Methyl tert-butyl ether	2.05		1.00	1	03/15/2020 01:10	WG1444259
Naphthalene	ND		5.00	1	03/20/2020 01:41	WG1446546
(S) Toluene-d8	107		80.0-120		03/15/2020 01:10	WG1444259
(S) Toluene-d8	111		80.0-120		03/20/2020 01:41	WG1446546
(S) 4-Bromofluorobenzene	95.2		77.0-126		03/15/2020 01:10	WG1444259
(S) 4-Bromofluorobenzene	104		77.0-126		03/20/2020 01:41	WG1446546
(S) 1,2-Dichloroethane-d4	116		70.0-130		03/15/2020 01:10	WG1444259
(S) 1,2-Dichloroethane-d4	104		70.0-130		03/20/2020 01:41	WG1446546

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Sulfate	ND		5000	1	03/17/2020 02:50	WG1444547

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	7.99		1.00	1	03/15/2020 01:31	WG1444259
Toluene	2.04		1.00	1	03/15/2020 01:31	WG1444259
Ethylbenzene	ND		1.00	1	03/15/2020 01:31	WG1444259
o-Xylene	1.19		1.00	1	03/15/2020 01:31	WG1444259
m&p-Xylene	ND		2.00	1	03/15/2020 01:31	WG1444259
Total Xylenes	ND		3.00	1	03/15/2020 01:31	WG1444259
Methyl tert-butyl ether	1.12		1.00	1	03/15/2020 01:31	WG1444259
Naphthalene	ND		5.00	1	03/20/2020 02:02	WG1446546
(S) Toluene-d8	98.9		80.0-120		03/15/2020 01:31	WG1444259
(S) Toluene-d8	109		80.0-120		03/20/2020 02:02	WG1446546
(S) 4-Bromofluorobenzene	89.2		77.0-126		03/15/2020 01:31	WG1444259
(S) 4-Bromofluorobenzene	105		77.0-126		03/20/2020 02:02	WG1446546
(S) 1,2-Dichloroethane-d4	115		70.0-130		03/15/2020 01:31	WG1444259
(S) 1,2-Dichloroethane-d4	107		70.0-130		03/20/2020 02:02	WG1446546

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Sulfate	ND		5000	1	03/17/2020 03:07	WG1444547

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/15/2020 01:51	WG1444259
Toluene	ND		1.00	1	03/15/2020 01:51	WG1444259
Ethylbenzene	ND		1.00	1	03/15/2020 01:51	WG1444259
o-Xylene	ND		1.00	1	03/15/2020 01:51	WG1444259
m&p-Xylene	ND		2.00	1	03/15/2020 01:51	WG1444259
Total Xylenes	ND		3.00	1	03/15/2020 01:51	WG1444259
Methyl tert-butyl ether	ND		1.00	1	03/15/2020 01:51	WG1444259
Naphthalene	ND		5.00	1	03/20/2020 02:22	WG1446546
(S) Toluene-d8	101		80.0-120		03/15/2020 01:51	WG1444259
(S) Toluene-d8	112		80.0-120		03/20/2020 02:22	WG1446546
(S) 4-Bromofluorobenzene	91.6		77.0-126		03/15/2020 01:51	WG1444259
(S) 4-Bromofluorobenzene	104		77.0-126		03/20/2020 02:22	WG1446546
(S) 1,2-Dichloroethane-d4	118		70.0-130		03/15/2020 01:51	WG1444259
(S) 1,2-Dichloroethane-d4	105		70.0-130		03/20/2020 02:22	WG1446546

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/15/2020 02:14	WG1444259
Toluene	ND		1.00	1	03/15/2020 02:14	WG1444259
Ethylbenzene	ND		1.00	1	03/15/2020 02:14	WG1444259
o-Xylene	ND		1.00	1	03/15/2020 02:14	WG1444259
m&p-Xylene	ND		2.00	1	03/15/2020 02:14	WG1444259
Total Xylenes	ND		3.00	1	03/15/2020 02:14	WG1444259
Methyl tert-butyl ether	ND		1.00	1	03/15/2020 02:14	WG1444259
Naphthalene	ND		5.00	1	03/20/2020 02:42	WG1446546
(S) Toluene-d8	104		80.0-120		03/15/2020 02:14	WG1444259
(S) Toluene-d8	116		80.0-120		03/20/2020 02:42	WG1446546
(S) 4-Bromofluorobenzene	97.4		77.0-126		03/15/2020 02:14	WG1444259
(S) 4-Bromofluorobenzene	104		77.0-126		03/20/2020 02:42	WG1446546
(S) 1,2-Dichloroethane-d4	125		70.0-130		03/15/2020 02:14	WG1444259
(S) 1,2-Dichloroethane-d4	106		70.0-130		03/20/2020 02:42	WG1446546

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Sulfate	ND		5000	1	03/17/2020 03:25	WG1444547

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/15/2020 02:32	WG1444259
Toluene	ND		1.00	1	03/15/2020 02:32	WG1444259
Ethylbenzene	ND		1.00	1	03/15/2020 02:32	WG1444259
o-Xylene	ND		1.00	1	03/15/2020 02:32	WG1444259
m&p-Xylene	ND		2.00	1	03/15/2020 02:32	WG1444259
Total Xylenes	ND		3.00	1	03/15/2020 02:32	WG1444259
Methyl tert-butyl ether	ND		1.00	1	03/15/2020 02:32	WG1444259
Naphthalene	ND		5.00	1	03/20/2020 03:03	WG1446546
(S) Toluene-d8	104		80.0-120		03/15/2020 02:32	WG1444259
(S) Toluene-d8	112		80.0-120		03/20/2020 03:03	WG1446546
(S) 4-Bromofluorobenzene	93.9		77.0-126		03/15/2020 02:32	WG1444259
(S) 4-Bromofluorobenzene	103		77.0-126		03/20/2020 03:03	WG1446546
(S) 1,2-Dichloroethane-d4	124		70.0-130		03/15/2020 02:32	WG1444259
(S) 1,2-Dichloroethane-d4	104		70.0-130		03/20/2020 03:03	WG1446546

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/15/2020 02:53	WG1444259
Toluene	ND		1.00	1	03/15/2020 02:53	WG1444259
Ethylbenzene	ND		1.00	1	03/15/2020 02:53	WG1444259
o-Xylene	ND		1.00	1	03/15/2020 02:53	WG1444259
m&p-Xylene	ND		2.00	1	03/15/2020 02:53	WG1444259
Total Xylenes	ND		3.00	1	03/15/2020 02:53	WG1444259
Methyl tert-butyl ether	ND		1.00	1	03/15/2020 02:53	WG1444259
Naphthalene	ND		5.00	1	03/20/2020 03:23	WG1446546
(S) Toluene-d8	102		80.0-120		03/15/2020 02:53	WG1444259
(S) Toluene-d8	112		80.0-120		03/20/2020 03:23	WG1446546
(S) 4-Bromofluorobenzene	90.5		77.0-126		03/15/2020 02:53	WG1444259
(S) 4-Bromofluorobenzene	105		77.0-126		03/20/2020 03:23	WG1446546
(S) 1,2-Dichloroethane-d4	124		70.0-130		03/15/2020 02:53	WG1444259
(S) 1,2-Dichloroethane-d4	104		70.0-130		03/20/2020 03:23	WG1446546

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Sulfate	25600		5000	1	03/17/2020 03:43	WG1444547

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		1.00	1	03/15/2020 03:13	WG1444259
Toluene	ND		1.00	1	03/15/2020 03:13	WG1444259
Ethylbenzene	ND		1.00	1	03/15/2020 03:13	WG1444259
o-Xylene	ND		1.00	1	03/15/2020 03:13	WG1444259
m&p-Xylene	ND		2.00	1	03/15/2020 03:13	WG1444259
Total Xylenes	ND		3.00	1	03/15/2020 03:13	WG1444259
Methyl tert-butyl ether	3.73		1.00	1	03/15/2020 03:13	WG1444259
Naphthalene	ND		5.00	1	03/20/2020 03:43	WG1446546
(S) Toluene-d8	97.2		80.0-120		03/15/2020 03:13	WG1444259
(S) Toluene-d8	114		80.0-120		03/20/2020 03:43	WG1446546
(S) 4-Bromofluorobenzene	90.1		77.0-126		03/15/2020 03:13	WG1444259
(S) 4-Bromofluorobenzene	101		77.0-126		03/20/2020 03:43	WG1446546
(S) 1,2-Dichloroethane-d4	125		70.0-130		03/15/2020 03:13	WG1444259
(S) 1,2-Dichloroethane-d4	105		70.0-130		03/20/2020 03:43	WG1446546

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	1.07		1.00	1	03/15/2020 03:34	WG1444259
Toluene	ND		1.00	1	03/15/2020 03:34	WG1444259
Ethylbenzene	ND		1.00	1	03/15/2020 03:34	WG1444259
o-Xylene	ND		1.00	1	03/15/2020 03:34	WG1444259
m&p-Xylene	ND		2.00	1	03/15/2020 03:34	WG1444259
Total Xylenes	ND		3.00	1	03/15/2020 03:34	WG1444259
Methyl tert-butyl ether	1.50		1.00	1	03/15/2020 03:34	WG1444259
Naphthalene	ND		5.00	1	03/20/2020 04:04	WG1446546
(S) Toluene-d8	100		80.0-120		03/15/2020 03:34	WG1444259
(S) Toluene-d8	116		80.0-120		03/20/2020 04:04	WG1446546
(S) 4-Bromofluorobenzene	94.7		77.0-126		03/15/2020 03:34	WG1444259
(S) 4-Bromofluorobenzene	101		77.0-126		03/20/2020 04:04	WG1446546
(S) 1,2-Dichloroethane-d4	123		70.0-130		03/15/2020 03:34	WG1444259
(S) 1,2-Dichloroethane-d4	106		70.0-130		03/20/2020 04:04	WG1446546

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft



Wet Chemistry by Method 9056A


Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Sulfate	ND		5000	1	03/17/2020 04:01	WG1444547

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	7.71		1.00	1	03/15/2020 03:55	WG1444259
Toluene	1.30		1.00	1	03/15/2020 03:55	WG1444259
Ethylbenzene	ND		1.00	1	03/15/2020 03:55	WG1444259
o-Xylene	1.38		1.00	1	03/15/2020 03:55	WG1444259
m&p-Xylene	ND		2.00	1	03/15/2020 03:55	WG1444259
Total Xylenes	ND		3.00	1	03/15/2020 03:55	WG1444259
Methyl tert-butyl ether	2.32		1.00	1	03/15/2020 03:55	WG1444259
Naphthalene	ND		5.00	1	03/20/2020 04:24	WG1446546
(S) Toluene-d8	99.6		80.0-120		03/15/2020 03:55	WG1444259
(S) Toluene-d8	115		80.0-120		03/20/2020 04:24	WG1446546
(S) 4-Bromofluorobenzene	91.8		77.0-126		03/15/2020 03:55	WG1444259
(S) 4-Bromofluorobenzene	106		77.0-126		03/20/2020 04:24	WG1446546
(S) 1,2-Dichloroethane-d4	123		70.0-130		03/15/2020 03:55	WG1444259
(S) 1,2-Dichloroethane-d4	107		70.0-130		03/20/2020 04:24	WG1446546

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Draft

Kinder Morgan- Atlanta, GA		Billing Information:		Analysis / Container / Preservative										Chain of Custody Page 1 of 2									
Ten 10th Street NW Suite 1400 Atlanta GA 30309		Accounts Payable 1000 Windward Concourse Ste 450 Alpharetta, GA 30005		Pres Chk X X X										 Pace Analytical® National Center for Testing & Innovation									
Report to: Bethany Garvey		Email To: bethany.garvey@jacobs.com;tom.wiley@jacobs.co												12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859									
Project Description: Lewis Drive Surface Water		City/State Collected: BELTON, SC		Please Circle: PT MT CT ET										SDG # 1198760 Table # F002									
Phone: 770-604-9182		Client Project # KMLDOW20		Lab Project # KINCH2MGA-LEWIS										Acctnum: KINCH2MGA Template: T155770									
Fax:		Site/Facility ID # LEWIS DRIVE		P.O. #										Prelogin: P758898 PM: 526 - Chris McCord									
Collected by (print): MELISSA WARREN		Rush? (Lab MUST Be Notified)		Quote #										PB: 3-4-2020 Gm									
Collected by (signature): <i>Melissa Warren</i>		<input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Date Results Needed										Shipped Via: FedEX Ground									
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>		No. of Cntrs												Remarks Sample # (lab only)									
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs																	
TB04-031220	GNAB	GW	NA	03/12/20		1	X	V8260BTEXMNSC 40mlAmb-HCl SULFATE 125mlHDPE-NO PUES V8260BTEXMNSC-TB 40mlAmb-HCl-BIK															
SW03-031220		GW			1335	3	X																
SW10-031220		GW			0925	3	X																
SW09-031220		GW			0935	3	X																
SW14-031220		GW			1415	4	X	X															
SW04-031220		GW			1040	4	X	X															
SW01-031220		GW			1300	4	X	X															
SW12-031220		GW			1325	4	X	X															
SW07-031220		GW			1310	3	X																
SW05-031220		GW			1455	4	X	X															
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: V8260BTEXMNSC=BTEX + Naphthalene + MTBE.		pH _____ Temp _____ Flow _____ Other _____										Sample Receipt Checklist COC Seal Present/Intact: <input type="checkbox"/> NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Bottles arrive intact: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Correct bottles used: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Sufficient volume used: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N If Applicable VOA Zero Headspace: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Preservation Correct/Checked: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N RAD Screen <0.5 mR/hr: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N									
Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier		Tracking # 1663 5752 7596																					
Relinquished by: (Signature) <i>Melissa Warren</i>		Date: 03/12/20		Time: 1830		Received by: (Signature)		Trip Blank Received: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No HCL MeOH TBR															
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: 1.6 ± 0.1 °C		Bottles Received: 36		If preservation required by Login: Date/Time											
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature) <i>L. Webb</i>		Date: 3/13/20		Time: 08:45		Hold:		Condition: NCF / 08									

Kinder Morgan- Atlanta, GA

Ten 10th Street NW
Suite 1400
Atlanta GA 30309

Report to:
Bethany Garvey

Billing Information:

Accounts Payable
1000 Windward Concourse
Ste 450
Alpharetta, GA 30005

Email To:
bethany.garvey@jacobs.com;tom.wiley@jacobs.co

Pres
Chk

Analysis / Container / Preservative



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



Project Description: **Lewis Drive Surface Water** City/State Collected: **BELTON, SC** Please Circle: PT MT CT ET

Phone: **770-604-9182**
Fax:

Client Project #
KMLDOM20
B: CS. GEN. LDOMR.SW

Lab Project #
KINCH2MGA-LEWIS

Collected by (print):
MELISSA WALKER

Site/Facility ID #
LEWIS DRIVE

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Date Results Needed

No.
of
Cnts

Immediately Packed on Ice N Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts	Pres	Chk
SW11-031220	GRAB	GW	NA	03/12/20	0915	3	X	
SW13-031220	↓	GW	↓	↓	1015	4	X	X
SW08-031220	↓	GW	↓	↓	0945	3	X	
SW02-031220	↓	GW	↓	↓	1050	4	X	X
		GW				3	X	
		GW				3	X	
		GW				3	X	
		GW				3	X	
		GW				3	X	
		GW				3	X	
		GW				3	X	

V8260BTEXMNSC 40mlamb-HCl

SULFATE 125ml HDPE - NO PRES

SDG # **119816**
Table #
Acctnum: **KINCH2MGA**
Template: **T155770**
Prelogin: **P758898**
PM: **526 - Chris McCord**
PB: **3-4-2020 GM**
Shipped Via: **FedEX Ground**
Remarks Sample # (lab only)

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: **V8260BTEXMNSC=BTEX + Naphthalene + MTBE.**

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
 UPS FedEx Courier

Tracking # **1663 5752 7596**

Sample Receipt Checklist

COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature) **Melissa Walker** Date: **03/12/20** Time: **1830**

Received by: (Signature) Trip Blank Received: Yes No
HCl/MeOH
TBR

Relinquished by: (Signature) Date: Time:

Received by: (Signature) Temp: **14.0 ± 0.6 °C** Bottles Received: **36**

Relinquished by: (Signature) Date: Time:

Received for lab by: (Signature) **L. Welch** Date: **3/13/20** Time: **08:45**

If preservation required by Login: Date/Time
Hold: Condition: **NCF / OK**