

Caerus Oil and Gas

Sample Delivery Group: L1612512
Samples Received: 05/04/2023
Project Number: LOVE RANCH 8
Description: Love Ranch 8
Site: LOVE RANCH 8
Report To: Brett M. , Jake J. , Blair R.
143 Diamond Avenue
Parachute, CO 81635

Entire Report Reviewed By:



Chris Ward
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.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	4
Cn: Case Narrative	9
Sr: Sample Results	10
20230502-LOVE RANCH 8-(ST-PC-FIELD01) L1612512-01	10
20230502-LOVE RANCH 8-(ST-PC-FIELD02) L1612512-02	11
20230503-LOVE RANCH 8-(ST-PC-FIELD01) L1612512-03	12
20230503-LOVE RANCH 8-(ST-PC-FIELD02) L1612512-04	13
20230503-LOVE RANCH 8-(ST-PC-DITCH01) L1612512-05	14
20230503-LOVE RANCH 8-(ST-PC-DITCH02) L1612512-06	15
20230503-LOVE RANCH 8-(ST-PC-DITCH03) L1612512-07	16
20230503-LOVE RANCH 8-(ST-PC-DITCH04) L1612512-08	17
20230503-LOVE RANCH 8-(ST-PC-DITCH05) L1612512-09	18
20230503-LOVE RANCH 8-(ST-PC-DITCH06) L1612512-10	19
20230503-LOVE RANCH 8-(ST-PC-DG07) L1612512-11	20
20230503-LOVE RANCH 8-(ST-PC-DG08) L1612512-12	21
20230503-LOVE RANCH 8-(ST-PC-DG09) L1612512-13	22
20230503-LOVE RANCH 8-(ST-PC-DG10) L1612512-14	23
20230503-LOVE RANCH 8-(ST-PC-DG11) L1612512-15	24
20230503-LOVE RANCH 8-(ST-PC-DG12) L1612512-16	25
20230503-LOVE RANCH 8-(ST-PC-DG13) L1612512-17	26
20230503-LOVE RANCH 8-(ST-PC-BG) L1612512-18	27
20230503-LOVE RANCH 8-(ST-PC-HG) L1612512-19	28
20230503-LOVE RANCH 8-(ST-PC-CR24) L1612512-20	29
20230503-LOVE RANCH 8-(ST-PC-UG01) L1612512-21	30
20230503-LOVE RANCH 8-(ST-PC-UG02) L1612512-22	31
20230503-LOVE RANCH 8-(ST-PC-UG03) L1612512-23	32
20230503-LOVE RANCH 8-(ST-PC-POR) L1612512-24	33
20230503-LOVE RANCH 8-(ST-PC-DG01) L1612512-25	34
20230503-LOVE RANCH 8-(ST-PC-DG02) L1612512-26	35
20230503-LOVE RANCH 8-(ST-PC-DG03) L1612512-27	36
20230503-LOVE RANCH 8-(ST-PC-DG04) L1612512-28	37
20230503-LOVE RANCH 8-(ST-PC-DG05) L1612512-29	38
20230503-LOVE RANCH 8-(ST-PC-DG06) L1612512-30	39
Qc: Quality Control Summary	40
Gravimetric Analysis by Method 2540 C-2011	40
Wet Chemistry by Method 9056A	42
Volatile Organic Compounds (GC/MS) by Method 8260B	46
Gl: Glossary of Terms	48

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

SAMPLE SUMMARY

20230502-LOVE RANCH 8-(ST-PC-FIELD01) L1612512-01 GW

Collected by
Steve Sivigliano

Collected date/time
05/02/23 14:40

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054592	1	05/05/23 06:45	05/05/23 13:12	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055242	5	05/05/23 21:43	05/05/23 21:43	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054544	1	05/05/23 03:23	05/05/23 03:23	JAH	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

20230502-LOVE RANCH 8-(ST-PC-FIELD02) L1612512-02 GW

Collected by
Steve Sivigliano

Collected date/time
05/02/23 14:50

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054592	1	05/05/23 06:45	05/05/23 13:12	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055242	5	05/05/23 21:57	05/05/23 21:57	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054544	1	05/05/23 03:44	05/05/23 03:44	JAH	Mt. Juliet, TN

20230503-LOVE RANCH 8-(ST-PC-FIELD01) L1612512-03 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 10:10

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054592	1	05/05/23 06:45	05/05/23 13:12	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055242	5	05/05/23 22:10	05/05/23 22:10	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054544	1	05/05/23 04:05	05/05/23 04:05	JAH	Mt. Juliet, TN

20230503-LOVE RANCH 8-(ST-PC-FIELD02) L1612512-04 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 10:30

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054592	1	05/05/23 06:45	05/05/23 13:12	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055242	5	05/05/23 22:24	05/05/23 22:24	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054544	5	05/05/23 07:59	05/05/23 07:59	JAH	Mt. Juliet, TN

20230503-LOVE RANCH 8-(ST-PC-DITCH01) L1612512-05 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 10:45

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054592	1	05/05/23 06:45	05/05/23 13:12	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055242	1	05/05/23 22:37	05/05/23 22:37	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054544	1	05/05/23 04:26	05/05/23 04:26	JAH	Mt. Juliet, TN

20230503-LOVE RANCH 8-(ST-PC-DITCH02) L1612512-06 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 10:47

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054592	1	05/05/23 06:45	05/05/23 13:12	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055242	5	05/06/23 00:23	05/06/23 00:23	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054544	1	05/05/23 04:47	05/05/23 04:47	JAH	Mt. Juliet, TN

SAMPLE SUMMARY

20230503-LOVE RANCH 8-(ST-PC-DITCH03) L1612512-07 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 10:55

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054592	1	05/05/23 06:45	05/05/23 13:12	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055242	5	05/06/23 00:37	05/06/23 00:37	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054544	1	05/05/23 05:09	05/05/23 05:09	JAH	Mt. Juliet, TN

20230503-LOVE RANCH 8-(ST-PC-DITCH04) L1612512-08 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 11:05

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054592	1	05/05/23 06:45	05/05/23 13:12	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055242	5	05/06/23 00:51	05/06/23 00:51	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054544	1	05/05/23 05:30	05/05/23 05:30	JAH	Mt. Juliet, TN

20230503-LOVE RANCH 8-(ST-PC-DITCH05) L1612512-09 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 11:05

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054592	1	05/05/23 06:45	05/05/23 13:12	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055242	5	05/06/23 01:04	05/06/23 01:04	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054544	1	05/05/23 05:51	05/05/23 05:51	JAH	Mt. Juliet, TN

20230503-LOVE RANCH 8-(ST-PC-DITCH06) L1612512-10 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 11:10

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054592	1	05/05/23 06:45	05/05/23 13:12	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055242	5	05/06/23 01:18	05/06/23 01:18	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054544	1	05/05/23 06:12	05/05/23 06:12	JAH	Mt. Juliet, TN

20230503-LOVE RANCH 8-(ST-PC-DG07) L1612512-11 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 10:08

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054592	1	05/05/23 06:45	05/05/23 13:12	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055242	5	05/06/23 01:31	05/06/23 01:31	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054544	1	05/05/23 06:33	05/05/23 06:33	JAH	Mt. Juliet, TN

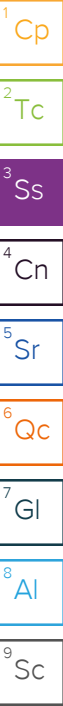
20230503-LOVE RANCH 8-(ST-PC-DG08) L1612512-12 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 10:15

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054592	1	05/05/23 06:45	05/05/23 13:12	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055242	5	05/06/23 01:45	05/06/23 01:45	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054566	1	05/05/23 20:29	05/05/23 20:29	JAH	Mt. Juliet, TN



SAMPLE SUMMARY

20230503-LOVE RANCH 8-(ST-PC-DG09) L1612512-13 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 10:13

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054592	1	05/05/23 06:45	05/05/23 13:12	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055242	5	05/06/23 01:59	05/06/23 01:59	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054566	1	05/05/23 20:48	05/05/23 20:48	JAH	Mt. Juliet, TN

20230503-LOVE RANCH 8-(ST-PC-DG10) L1612512-14 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 10:20

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054592	1	05/05/23 06:45	05/05/23 13:12	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055242	5	05/06/23 02:39	05/06/23 02:39	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054566	1	05/05/23 21:07	05/05/23 21:07	JAH	Mt. Juliet, TN

20230503-LOVE RANCH 8-(ST-PC-DG11) L1612512-15 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 10:20

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054592	1	05/05/23 06:45	05/05/23 13:12	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055242	5	05/06/23 02:53	05/06/23 02:53	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054566	1	05/05/23 21:26	05/05/23 21:26	JAH	Mt. Juliet, TN

20230503-LOVE RANCH 8-(ST-PC-DG12) L1612512-16 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 09:20

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054594	1	05/05/23 06:56	05/05/23 10:42	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055242	5	05/06/23 03:07	05/06/23 03:07	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054566	1	05/05/23 21:45	05/05/23 21:45	JAH	Mt. Juliet, TN

20230503-LOVE RANCH 8-(ST-PC-DG13) L1612512-17 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 09:05

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054594	1	05/05/23 06:56	05/05/23 10:42	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055242	5	05/06/23 03:20	05/06/23 03:20	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054566	1	05/05/23 22:04	05/05/23 22:04	JAH	Mt. Juliet, TN

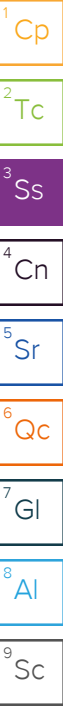
20230503-LOVE RANCH 8-(ST-PC-BG) L1612512-18 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 11:31

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054594	1	05/05/23 06:56	05/05/23 10:42	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055242	5	05/06/23 03:34	05/06/23 03:34	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054566	1	05/05/23 22:23	05/05/23 22:23	JAH	Mt. Juliet, TN



SAMPLE SUMMARY

20230503-LOVE RANCH 8-(ST-PC-HG) L1612512-19 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 11:50

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054594	1	05/05/23 06:56	05/05/23 10:42	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055242	5	05/06/23 03:47	05/06/23 03:47	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054566	1	05/05/23 22:42	05/05/23 22:42	JAH	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

20230503-LOVE RANCH 8-(ST-PC-CR24) L1612512-20 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 11:58

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054594	1	05/05/23 06:56	05/05/23 10:42	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055242	1	05/06/23 04:01	05/06/23 04:01	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054566	1	05/05/23 23:01	05/05/23 23:01	JAH	Mt. Juliet, TN

20230503-LOVE RANCH 8-(ST-PC-UG01) L1612512-21 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 09:20

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054594	1	05/05/23 06:56	05/05/23 10:42	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055244	1	05/06/23 03:41	05/06/23 03:41	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054566	1	05/05/23 23:20	05/05/23 23:20	JAH	Mt. Juliet, TN

20230503-LOVE RANCH 8-(ST-PC-UG02) L1612512-22 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 09:15

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054594	1	05/05/23 06:56	05/05/23 10:42	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055244	1	05/06/23 03:57	05/06/23 03:57	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054566	1	05/05/23 23:39	05/05/23 23:39	JAH	Mt. Juliet, TN

20230503-LOVE RANCH 8-(ST-PC-UG03) L1612512-23 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 09:00

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054594	1	05/05/23 06:56	05/05/23 10:42	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055244	1	05/06/23 04:13	05/06/23 04:13	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054566	1	05/05/23 23:58	05/05/23 23:58	JAH	Mt. Juliet, TN

20230503-LOVE RANCH 8-(ST-PC-POR) L1612512-24 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 09:10

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054594	1	05/05/23 06:56	05/05/23 10:42	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055244	1	05/06/23 05:33	05/06/23 05:33	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054566	1	05/06/23 00:17	05/06/23 00:17	JAH	Mt. Juliet, TN

SAMPLE SUMMARY

20230503-LOVE RANCH 8-(ST-PC-DG01) L1612512-25 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 09:45

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054594	1	05/05/23 06:56	05/05/23 10:42	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055244	1	05/06/23 05:49	05/06/23 05:49	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054566	1	05/06/23 00:36	05/06/23 00:36	JAH	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

20230503-LOVE RANCH 8-(ST-PC-DG02) L1612512-26 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 09:47

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054594	1	05/05/23 06:56	05/05/23 10:42	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055244	1	05/06/23 06:04	05/06/23 06:04	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054566	1	05/06/23 00:55	05/06/23 00:55	JAH	Mt. Juliet, TN

20230503-LOVE RANCH 8-(ST-PC-DG03) L1612512-27 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 09:55

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054594	1	05/05/23 06:56	05/05/23 10:42	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055244	1	05/06/23 06:20	05/06/23 06:20	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054566	1	05/06/23 01:14	05/06/23 01:14	JAH	Mt. Juliet, TN

20230503-LOVE RANCH 8-(ST-PC-DG04) L1612512-28 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 09:55

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054594	1	05/05/23 06:56	05/05/23 10:42	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055244	1	05/06/23 06:36	05/06/23 06:36	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054566	1	05/06/23 01:33	05/06/23 01:33	JAH	Mt. Juliet, TN

20230503-LOVE RANCH 8-(ST-PC-DG05) L1612512-29 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 10:00

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054594	1	05/05/23 06:56	05/05/23 10:42	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055244	1	05/06/23 06:52	05/06/23 06:52	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054566	1	05/06/23 01:52	05/06/23 01:52	JAH	Mt. Juliet, TN

20230503-LOVE RANCH 8-(ST-PC-DG06) L1612512-30 GW

Collected by
Steve Sivigliano

Collected date/time
05/03/23 10:03

Received date/time
05/04/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2054594	1	05/05/23 06:56	05/05/23 10:42	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2055244	1	05/06/23 07:08	05/06/23 07:08	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2054566	1	05/06/23 02:11	05/06/23 02:11	JAH	Mt. Juliet, TN

CASE NARRATIVE

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 Ward
Project Manager



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1030		20.0	1	05/05/2023 13:12	WG2054592

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	30.6		1.90	5.00	5	05/05/2023 21:43	WG2055242
Sulfate	277		2.97	25.0	5	05/05/2023 21:43	WG2055242

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/05/2023 03:23	WG2054544
Toluene	0.000334	J	0.000278	0.00100	1	05/05/2023 03:23	WG2054544
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 03:23	WG2054544
Xylenes, Total	0.000371	J	0.000174	0.00300	1	05/05/2023 03:23	WG2054544
Naphthalene	U		0.00100	0.00500	1	05/05/2023 03:23	WG2054544
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/05/2023 03:23	WG2054544
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/05/2023 03:23	WG2054544
(S) Toluene-d8	119			80.0-120		05/05/2023 03:23	WG2054544
(S) 4-Bromofluorobenzene	112			77.0-126		05/05/2023 03:23	WG2054544
(S) 1,2-Dichloroethane-d4	109			70.0-130		05/05/2023 03:23	WG2054544

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	946		20.0	1	05/05/2023 13:12	WG2054592

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	19.9		1.90	5.00	5	05/05/2023 21:57	WG2055242
Sulfate	292		2.97	25.0	5	05/05/2023 21:57	WG2055242

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.000348	J	0.0000941	0.00100	1	05/05/2023 03:44	WG2054544
Toluene	0.00158		0.000278	0.00100	1	05/05/2023 03:44	WG2054544
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 03:44	WG2054544
Xylenes, Total	0.00231	J	0.000174	0.00300	1	05/05/2023 03:44	WG2054544
Naphthalene	U		0.00100	0.00500	1	05/05/2023 03:44	WG2054544
1,2,4-Trimethylbenzene	0.000331	J	0.000322	0.00100	1	05/05/2023 03:44	WG2054544
1,3,5-Trimethylbenzene	0.000251	J	0.000104	0.00100	1	05/05/2023 03:44	WG2054544
(S) Toluene-d8	120			80.0-120		05/05/2023 03:44	WG2054544
(S) 4-Bromofluorobenzene	113			77.0-126		05/05/2023 03:44	WG2054544
(S) 1,2-Dichloroethane-d4	108			70.0-130		05/05/2023 03:44	WG2054544

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	860		13.3	1	05/05/2023 13:12	WG2054592

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	19.3		1.90	5.00	5	05/05/2023 22:10	WG2055242
Sulfate	311		2.97	25.0	5	05/05/2023 22:10	WG2055242

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/05/2023 04:05	WG2054544
Toluene	U		0.000278	0.00100	1	05/05/2023 04:05	WG2054544
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 04:05	WG2054544
Xylenes, Total	0.000183	J	0.000174	0.00300	1	05/05/2023 04:05	WG2054544
Naphthalene	U		0.00100	0.00500	1	05/05/2023 04:05	WG2054544
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/05/2023 04:05	WG2054544
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/05/2023 04:05	WG2054544
(S) Toluene-d8	120			80.0-120		05/05/2023 04:05	WG2054544
(S) 4-Bromofluorobenzene	114			77.0-126		05/05/2023 04:05	WG2054544
(S) 1,2-Dichloroethane-d4	109			70.0-130		05/05/2023 04:05	WG2054544

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	567		10.0	1	05/05/2023 13:12	WG2054592

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	9.67		1.90	5.00	5	05/05/2023 22:24	WG2055242
Sulfate	154		2.97	25.0	5	05/05/2023 22:24	WG2055242

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.000471	0.00500	5	05/05/2023 07:59	WG2054544
Toluene	U		0.00139	0.00500	5	05/05/2023 07:59	WG2054544
Ethylbenzene	U		0.000685	0.00500	5	05/05/2023 07:59	WG2054544
Xylenes, Total	0.00115	J	0.000870	0.0150	5	05/05/2023 07:59	WG2054544
Naphthalene	U		0.00500	0.0250	5	05/05/2023 07:59	WG2054544
1,2,4-Trimethylbenzene	U		0.00161	0.00500	5	05/05/2023 07:59	WG2054544
1,3,5-Trimethylbenzene	0.000657	J	0.000520	0.00500	5	05/05/2023 07:59	WG2054544
(S) Toluene-d8	118			80.0-120		05/05/2023 07:59	WG2054544
(S) 4-Bromofluorobenzene	108			77.0-126		05/05/2023 07:59	WG2054544
(S) 1,2-Dichloroethane-d4	111			70.0-130		05/05/2023 07:59	WG2054544

Sample Narrative:

L1612512-04 WG2054544: Lowest possible dilution due to sample matrix.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	551		10.0	1	05/05/2023 13:12	WG2054592

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	9.66		0.379	1.00	1	05/05/2023 22:37	WG2055242
Sulfate	148		0.594	5.00	1	05/05/2023 22:37	WG2055242

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	05/05/2023 04:26	WG2054544
Toluene	0.000332	J	0.000278	0.00100	1	05/05/2023 04:26	WG2054544
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 04:26	WG2054544
Xylenes, Total	0.000714	J	0.000174	0.00300	1	05/05/2023 04:26	WG2054544
Naphthalene	U		0.00100	0.00500	1	05/05/2023 04:26	WG2054544
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/05/2023 04:26	WG2054544
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/05/2023 04:26	WG2054544
(S) Toluene-d8	119			80.0-120		05/05/2023 04:26	WG2054544
(S) 4-Bromofluorobenzene	108			77.0-126		05/05/2023 04:26	WG2054544
(S) 1,2-Dichloroethane-d4	108			70.0-130		05/05/2023 04:26	WG2054544

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	913		13.3	1	05/05/2023 13:12	WG2054592

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	14.5		1.90	5.00	5	05/06/2023 00:23	WG2055242
Sulfate	208		2.97	25.0	5	05/06/2023 00:23	WG2055242

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/05/2023 04:47	WG2054544
Toluene	0.000343	J	0.000278	0.00100	1	05/05/2023 04:47	WG2054544
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 04:47	WG2054544
Xylenes, Total	0.000404	J	0.000174	0.00300	1	05/05/2023 04:47	WG2054544
Naphthalene	U		0.00100	0.00500	1	05/05/2023 04:47	WG2054544
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/05/2023 04:47	WG2054544
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/05/2023 04:47	WG2054544
(S) Toluene-d8	120			80.0-120		05/05/2023 04:47	WG2054544
(S) 4-Bromofluorobenzene	110			77.0-126		05/05/2023 04:47	WG2054544
(S) 1,2-Dichloroethane-d4	110			70.0-130		05/05/2023 04:47	WG2054544

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	600		10.0	1	05/05/2023 13:12	WG2054592

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	10.6		1.90	5.00	5	05/06/2023 00:37	WG2055242
Sulfate	163		2.97	25.0	5	05/06/2023 00:37	WG2055242

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/05/2023 05:09	WG2054544
Toluene	0.000345	J	0.000278	0.00100	1	05/05/2023 05:09	WG2054544
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 05:09	WG2054544
Xylenes, Total	0.000286	J	0.000174	0.00300	1	05/05/2023 05:09	WG2054544
Naphthalene	U		0.00100	0.00500	1	05/05/2023 05:09	WG2054544
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/05/2023 05:09	WG2054544
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/05/2023 05:09	WG2054544
(S) Toluene-d8	119			80.0-120		05/05/2023 05:09	WG2054544
(S) 4-Bromofluorobenzene	107			77.0-126		05/05/2023 05:09	WG2054544
(S) 1,2-Dichloroethane-d4	111			70.0-130		05/05/2023 05:09	WG2054544

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	571		10.0	1	05/05/2023 13:12	WG2054592

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	9.80		1.90	5.00	5	05/06/2023 00:51	WG2055242
Sulfate	155		2.97	25.0	5	05/06/2023 00:51	WG2055242

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	05/05/2023 05:30	WG2054544
Toluene	0.000300	J	0.000278	0.00100	1	05/05/2023 05:30	WG2054544
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 05:30	WG2054544
Xylenes, Total	0.000274	J	0.000174	0.00300	1	05/05/2023 05:30	WG2054544
Naphthalene	U		0.00100	0.00500	1	05/05/2023 05:30	WG2054544
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/05/2023 05:30	WG2054544
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/05/2023 05:30	WG2054544
(S) Toluene-d8	121	J1		80.0-120		05/05/2023 05:30	WG2054544
(S) 4-Bromofluorobenzene	108			77.0-126		05/05/2023 05:30	WG2054544
(S) 1,2-Dichloroethane-d4	108			70.0-130		05/05/2023 05:30	WG2054544

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	558		10.0	1	05/05/2023 13:12	WG2054592

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	12.6		1.90	5.00	5	05/06/2023 01:04	WG2055242
Sulfate	153		2.97	25.0	5	05/06/2023 01:04	WG2055242

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/05/2023 05:51	WG2054544
Toluene	0.000314	J	0.000278	0.00100	1	05/05/2023 05:51	WG2054544
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 05:51	WG2054544
Xylenes, Total	0.000238	J	0.000174	0.00300	1	05/05/2023 05:51	WG2054544
Naphthalene	U		0.00100	0.00500	1	05/05/2023 05:51	WG2054544
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/05/2023 05:51	WG2054544
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/05/2023 05:51	WG2054544
(S) Toluene-d8	118			80.0-120		05/05/2023 05:51	WG2054544
(S) 4-Bromofluorobenzene	106			77.0-126		05/05/2023 05:51	WG2054544
(S) 1,2-Dichloroethane-d4	110			70.0-130		05/05/2023 05:51	WG2054544

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	584		10.0	1	05/05/2023 13:12	WG2054592

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	9.85		1.90	5.00	5	05/06/2023 01:18	WG2055242
Sulfate	155		2.97	25.0	5	05/06/2023 01:18	WG2055242

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	05/05/2023 06:12	WG2054544
Toluene	0.000312	J	0.000278	0.00100	1	05/05/2023 06:12	WG2054544
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 06:12	WG2054544
Xylenes, Total	0.000298	J	0.000174	0.00300	1	05/05/2023 06:12	WG2054544
Naphthalene	U		0.00100	0.00500	1	05/05/2023 06:12	WG2054544
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/05/2023 06:12	WG2054544
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/05/2023 06:12	WG2054544
(S) Toluene-d8	119			80.0-120		05/05/2023 06:12	WG2054544
(S) 4-Bromofluorobenzene	109			77.0-126		05/05/2023 06:12	WG2054544
(S) 1,2-Dichloroethane-d4	109			70.0-130		05/05/2023 06:12	WG2054544

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	567		10.0	1	05/05/2023 13:12	WG2054592

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	9.63		1.90	5.00	5	05/06/2023 01:31	WG2055242
Sulfate	152		2.97	25.0	5	05/06/2023 01:31	WG2055242

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/05/2023 06:33	WG2054544
Toluene	0.000300	J	0.000278	0.00100	1	05/05/2023 06:33	WG2054544
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 06:33	WG2054544
Xylenes, Total	0.000262	J	0.000174	0.00300	1	05/05/2023 06:33	WG2054544
Naphthalene	U		0.00100	0.00500	1	05/05/2023 06:33	WG2054544
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/05/2023 06:33	WG2054544
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/05/2023 06:33	WG2054544
(S) Toluene-d8	117			80.0-120		05/05/2023 06:33	WG2054544
(S) 4-Bromofluorobenzene	106			77.0-126		05/05/2023 06:33	WG2054544
(S) 1,2-Dichloroethane-d4	110			70.0-130		05/05/2023 06:33	WG2054544

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	568		10.0	1	05/05/2023 13:12	WG2054592

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	9.56		1.90	5.00	5	05/06/2023 01:45	WG2055242
Sulfate	151		2.97	25.0	5	05/06/2023 01:45	WG2055242

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/05/2023 20:29	WG2054566
Toluene	0.000336	J	0.000278	0.00100	1	05/05/2023 20:29	WG2054566
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 20:29	WG2054566
Xylenes, Total	0.000232	J	0.000174	0.00300	1	05/05/2023 20:29	WG2054566
Naphthalene	U		0.00100	0.00500	1	05/05/2023 20:29	WG2054566
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/05/2023 20:29	WG2054566
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/05/2023 20:29	WG2054566
(S) Toluene-d8	95.1			80.0-120		05/05/2023 20:29	WG2054566
(S) 4-Bromofluorobenzene	107			77.0-126		05/05/2023 20:29	WG2054566
(S) 1,2-Dichloroethane-d4	113			70.0-130		05/05/2023 20:29	WG2054566

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	552		10.0	1	05/05/2023 13:12	WG2054592

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	9.58		1.90	5.00	5	05/06/2023 01:59	WG2055242
Sulfate	151		2.97	25.0	5	05/06/2023 01:59	WG2055242

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/05/2023 20:48	WG2054566
Toluene	0.000327	J	0.000278	0.00100	1	05/05/2023 20:48	WG2054566
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 20:48	WG2054566
Xylenes, Total	0.000288	J	0.000174	0.00300	1	05/05/2023 20:48	WG2054566
Naphthalene	U		0.00100	0.00500	1	05/05/2023 20:48	WG2054566
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/05/2023 20:48	WG2054566
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/05/2023 20:48	WG2054566
(S) Toluene-d8	92.9			80.0-120		05/05/2023 20:48	WG2054566
(S) 4-Bromofluorobenzene	106			77.0-126		05/05/2023 20:48	WG2054566
(S) 1,2-Dichloroethane-d4	116			70.0-130		05/05/2023 20:48	WG2054566

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	581		10.0	1	05/05/2023 13:12	WG2054592

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	9.53		1.90	5.00	5	05/06/2023 02:39	WG2055242
Sulfate	151		2.97	25.0	5	05/06/2023 02:39	WG2055242

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/05/2023 21:07	WG2054566
Toluene	0.000319	J	0.000278	0.00100	1	05/05/2023 21:07	WG2054566
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 21:07	WG2054566
Xylenes, Total	0.000237	J	0.000174	0.00300	1	05/05/2023 21:07	WG2054566
Naphthalene	U		0.00100	0.00500	1	05/05/2023 21:07	WG2054566
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/05/2023 21:07	WG2054566
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/05/2023 21:07	WG2054566
(S) Toluene-d8	97.8			80.0-120		05/05/2023 21:07	WG2054566
(S) 4-Bromofluorobenzene	106			77.0-126		05/05/2023 21:07	WG2054566
(S) 1,2-Dichloroethane-d4	111			70.0-130		05/05/2023 21:07	WG2054566

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	572		10.0	1	05/05/2023 13:12	WG2054592

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	9.67		1.90	5.00	5	05/06/2023 02:53	WG2055242
Sulfate	150		2.97	25.0	5	05/06/2023 02:53	WG2055242

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/05/2023 21:26	WG2054566
Toluene	0.000333	J	0.000278	0.00100	1	05/05/2023 21:26	WG2054566
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 21:26	WG2054566
Xylenes, Total	0.000248	J	0.000174	0.00300	1	05/05/2023 21:26	WG2054566
Naphthalene	U		0.00100	0.00500	1	05/05/2023 21:26	WG2054566
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/05/2023 21:26	WG2054566
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/05/2023 21:26	WG2054566
(S) Toluene-d8	97.3			80.0-120		05/05/2023 21:26	WG2054566
(S) 4-Bromofluorobenzene	108			77.0-126		05/05/2023 21:26	WG2054566
(S) 1,2-Dichloroethane-d4	117			70.0-130		05/05/2023 21:26	WG2054566

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	564		10.0	1	05/05/2023 10:42	WG2054594

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	9.57		1.90	5.00	5	05/06/2023 03:07	WG2055242
Sulfate	151		2.97	25.0	5	05/06/2023 03:07	WG2055242

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/05/2023 21:45	WG2054566
Toluene	0.000290	J	0.000278	0.00100	1	05/05/2023 21:45	WG2054566
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 21:45	WG2054566
Xylenes, Total	0.000208	J	0.000174	0.00300	1	05/05/2023 21:45	WG2054566
Naphthalene	U		0.00100	0.00500	1	05/05/2023 21:45	WG2054566
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/05/2023 21:45	WG2054566
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/05/2023 21:45	WG2054566
(S) Toluene-d8	97.7			80.0-120		05/05/2023 21:45	WG2054566
(S) 4-Bromofluorobenzene	99.0			77.0-126		05/05/2023 21:45	WG2054566
(S) 1,2-Dichloroethane-d4	118			70.0-130		05/05/2023 21:45	WG2054566

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	563		10.0	1	05/05/2023 10:42	WG2054594

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	9.43		1.90	5.00	5	05/06/2023 03:20	WG2055242
Sulfate	150		2.97	25.0	5	05/06/2023 03:20	WG2055242

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/05/2023 22:04	WG2054566
Toluene	0.000379	J	0.000278	0.00100	1	05/05/2023 22:04	WG2054566
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 22:04	WG2054566
Xylenes, Total	0.000353	J	0.000174	0.00300	1	05/05/2023 22:04	WG2054566
Naphthalene	U		0.00100	0.00500	1	05/05/2023 22:04	WG2054566
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/05/2023 22:04	WG2054566
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/05/2023 22:04	WG2054566
(S) Toluene-d8	93.8			80.0-120		05/05/2023 22:04	WG2054566
(S) 4-Bromofluorobenzene	106			77.0-126		05/05/2023 22:04	WG2054566
(S) 1,2-Dichloroethane-d4	120			70.0-130		05/05/2023 22:04	WG2054566

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	595		10.0	1	05/05/2023 10:42	WG2054594

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	10.7		1.90	5.00	5	05/06/2023 03:34	WG2055242
Sulfate	166		2.97	25.0	5	05/06/2023 03:34	WG2055242

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/05/2023 22:23	WG2054566
Toluene	U		0.000278	0.00100	1	05/05/2023 22:23	WG2054566
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 22:23	WG2054566
Xylenes, Total	U		0.000174	0.00300	1	05/05/2023 22:23	WG2054566
Naphthalene	U		0.00100	0.00500	1	05/05/2023 22:23	WG2054566
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/05/2023 22:23	WG2054566
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/05/2023 22:23	WG2054566
(S) Toluene-d8	94.9			80.0-120		05/05/2023 22:23	WG2054566
(S) 4-Bromofluorobenzene	103			77.0-126		05/05/2023 22:23	WG2054566
(S) 1,2-Dichloroethane-d4	123			70.0-130		05/05/2023 22:23	WG2054566

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	582		10.0	1	05/05/2023 10:42	WG2054594

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	10.2		1.90	5.00	5	05/06/2023 03:47	WG2055242
Sulfate	161		2.97	25.0	5	05/06/2023 03:47	WG2055242

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/05/2023 22:42	WG2054566
Toluene	U		0.000278	0.00100	1	05/05/2023 22:42	WG2054566
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 22:42	WG2054566
Xylenes, Total	U		0.000174	0.00300	1	05/05/2023 22:42	WG2054566
Naphthalene	U		0.00100	0.00500	1	05/05/2023 22:42	WG2054566
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/05/2023 22:42	WG2054566
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/05/2023 22:42	WG2054566
(S) Toluene-d8	91.3			80.0-120		05/05/2023 22:42	WG2054566
(S) 4-Bromofluorobenzene	108			77.0-126		05/05/2023 22:42	WG2054566
(S) 1,2-Dichloroethane-d4	131	J1		70.0-130		05/05/2023 22:42	WG2054566

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	587		10.0	1	05/05/2023 10:42	WG2054594

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	10.4		0.379	1.00	1	05/06/2023 04:01	WG2055242
Sulfate	157		0.594	5.00	1	05/06/2023 04:01	WG2055242

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/05/2023 23:01	WG2054566
Toluene	U		0.000278	0.00100	1	05/05/2023 23:01	WG2054566
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 23:01	WG2054566
Xylenes, Total	0.000259	J	0.000174	0.00300	1	05/05/2023 23:01	WG2054566
Naphthalene	U		0.00100	0.00500	1	05/05/2023 23:01	WG2054566
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/05/2023 23:01	WG2054566
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/05/2023 23:01	WG2054566
(S) Toluene-d8	93.7			80.0-120		05/05/2023 23:01	WG2054566
(S) 4-Bromofluorobenzene	106			77.0-126		05/05/2023 23:01	WG2054566
(S) 1,2-Dichloroethane-d4	133	J1		70.0-130		05/05/2023 23:01	WG2054566

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	582		10.0	1	05/05/2023 10:42	WG2054594

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	9.98		0.379	1.00	1	05/06/2023 03:41	WG2055244
Sulfate	153		0.594	5.00	1	05/06/2023 03:41	WG2055244

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/05/2023 23:20	WG2054566
Toluene	U		0.000278	0.00100	1	05/05/2023 23:20	WG2054566
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 23:20	WG2054566
Xylenes, Total	U		0.000174	0.00300	1	05/05/2023 23:20	WG2054566
Naphthalene	U		0.00100	0.00500	1	05/05/2023 23:20	WG2054566
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/05/2023 23:20	WG2054566
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/05/2023 23:20	WG2054566
(S) Toluene-d8	89.1			80.0-120		05/05/2023 23:20	WG2054566
(S) 4-Bromofluorobenzene	99.7			77.0-126		05/05/2023 23:20	WG2054566
(S) 1,2-Dichloroethane-d4	128			70.0-130		05/05/2023 23:20	WG2054566

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	570		10.0	1	05/05/2023 10:42	WG2054594

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	9.97		0.379	1.00	1	05/06/2023 03:57	WG2055244
Sulfate	153		0.594	5.00	1	05/06/2023 03:57	WG2055244

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/05/2023 23:39	WG2054566
Toluene	U		0.000278	0.00100	1	05/05/2023 23:39	WG2054566
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 23:39	WG2054566
Xylenes, Total	U		0.000174	0.00300	1	05/05/2023 23:39	WG2054566
Naphthalene	U		0.00100	0.00500	1	05/05/2023 23:39	WG2054566
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/05/2023 23:39	WG2054566
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/05/2023 23:39	WG2054566
(S) Toluene-d8	91.4			80.0-120		05/05/2023 23:39	WG2054566
(S) 4-Bromofluorobenzene	106			77.0-126		05/05/2023 23:39	WG2054566
(S) 1,2-Dichloroethane-d4	131	J1		70.0-130		05/05/2023 23:39	WG2054566

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	554		10.0	1	05/05/2023 10:42	WG2054594

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	9.96		0.379	1.00	1	05/06/2023 04:13	WG2055244
Sulfate	150		0.594	5.00	1	05/06/2023 04:13	WG2055244

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/05/2023 23:58	WG2054566
Toluene	U		0.000278	0.00100	1	05/05/2023 23:58	WG2054566
Ethylbenzene	U		0.000137	0.00100	1	05/05/2023 23:58	WG2054566
Xylenes, Total	U		0.000174	0.00300	1	05/05/2023 23:58	WG2054566
Naphthalene	U		0.00100	0.00500	1	05/05/2023 23:58	WG2054566
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/05/2023 23:58	WG2054566
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/05/2023 23:58	WG2054566
(S) Toluene-d8	93.8			80.0-120		05/05/2023 23:58	WG2054566
(S) 4-Bromofluorobenzene	105			77.0-126		05/05/2023 23:58	WG2054566
(S) 1,2-Dichloroethane-d4	129			70.0-130		05/05/2023 23:58	WG2054566

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	551		10.0	1	05/05/2023 10:42	WG2054594

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	10.1		0.379	1.00	1	05/06/2023 05:33	WG2055244
Sulfate	153		0.594	5.00	1	05/06/2023 05:33	WG2055244

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000390	J	0.0000941	0.00100	1	05/06/2023 00:17	WG2054566
Toluene	0.00226		0.000278	0.00100	1	05/06/2023 00:17	WG2054566
Ethylbenzene	0.000253	J	0.000137	0.00100	1	05/06/2023 00:17	WG2054566
Xylenes, Total	0.00317		0.000174	0.00300	1	05/06/2023 00:17	WG2054566
Naphthalene	U		0.00100	0.00500	1	05/06/2023 00:17	WG2054566
1,2,4-Trimethylbenzene	0.000420	J	0.000322	0.00100	1	05/06/2023 00:17	WG2054566
1,3,5-Trimethylbenzene	0.000373	J	0.000104	0.00100	1	05/06/2023 00:17	WG2054566
(S) Toluene-d8	89.9			80.0-120		05/06/2023 00:17	WG2054566
(S) 4-Bromofluorobenzene	103			77.0-126		05/06/2023 00:17	WG2054566
(S) 1,2-Dichloroethane-d4	136	J1		70.0-130		05/06/2023 00:17	WG2054566

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	565		10.0	1	05/05/2023 10:42	WG2054594

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	10.4		0.379	1.00	1	05/06/2023 05:49	WG2055244
Sulfate	160		0.594	5.00	1	05/06/2023 05:49	WG2055244

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/06/2023 00:36	WG2054566
Toluene	U		0.000278	0.00100	1	05/06/2023 00:36	WG2054566
Ethylbenzene	U		0.000137	0.00100	1	05/06/2023 00:36	WG2054566
Xylenes, Total	U		0.000174	0.00300	1	05/06/2023 00:36	WG2054566
Naphthalene	U		0.00100	0.00500	1	05/06/2023 00:36	WG2054566
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/06/2023 00:36	WG2054566
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/06/2023 00:36	WG2054566
(S) Toluene-d8	90.1			80.0-120		05/06/2023 00:36	WG2054566
(S) 4-Bromofluorobenzene	105			77.0-126		05/06/2023 00:36	WG2054566
(S) 1,2-Dichloroethane-d4	138	J1		70.0-130		05/06/2023 00:36	WG2054566

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	884		13.3	1	05/05/2023 10:42	WG2054594

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	13.2		0.379	1.00	1	05/06/2023 06:04	WG2055244
Sulfate	186		0.594	5.00	1	05/06/2023 06:04	WG2055244

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/06/2023 00:55	WG2054566
Toluene	U		0.000278	0.00100	1	05/06/2023 00:55	WG2054566
Ethylbenzene	U		0.000137	0.00100	1	05/06/2023 00:55	WG2054566
Xylenes, Total	0.000345	J	0.000174	0.00300	1	05/06/2023 00:55	WG2054566
Naphthalene	U		0.00100	0.00500	1	05/06/2023 00:55	WG2054566
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/06/2023 00:55	WG2054566
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/06/2023 00:55	WG2054566
(S) Toluene-d8	93.4			80.0-120		05/06/2023 00:55	WG2054566
(S) 4-Bromofluorobenzene	104			77.0-126		05/06/2023 00:55	WG2054566
(S) 1,2-Dichloroethane-d4	138	J1		70.0-130		05/06/2023 00:55	WG2054566

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	559		10.0	1	05/05/2023 10:42	WG2054594

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	9.97		0.379	1.00	1	05/06/2023 06:20	WG2055244
Sulfate	153		0.594	5.00	1	05/06/2023 06:20	WG2055244

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/06/2023 01:14	WG2054566
Toluene	0.000310	J	0.000278	0.00100	1	05/06/2023 01:14	WG2054566
Ethylbenzene	U		0.000137	0.00100	1	05/06/2023 01:14	WG2054566
Xylenes, Total	U		0.000174	0.00300	1	05/06/2023 01:14	WG2054566
Naphthalene	U		0.00100	0.00500	1	05/06/2023 01:14	WG2054566
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/06/2023 01:14	WG2054566
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/06/2023 01:14	WG2054566
(S) Toluene-d8	92.8			80.0-120		05/06/2023 01:14	WG2054566
(S) 4-Bromofluorobenzene	106			77.0-126		05/06/2023 01:14	WG2054566
(S) 1,2-Dichloroethane-d4	136	J1		70.0-130		05/06/2023 01:14	WG2054566

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	568		10.0	1	05/05/2023 10:42	WG2054594

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	9.99		0.379	1.00	1	05/06/2023 06:36	WG2055244
Sulfate	153		0.594	5.00	1	05/06/2023 06:36	WG2055244

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/06/2023 01:33	WG2054566
Toluene	U		0.000278	0.00100	1	05/06/2023 01:33	WG2054566
Ethylbenzene	U		0.000137	0.00100	1	05/06/2023 01:33	WG2054566
Xylenes, Total	U		0.000174	0.00300	1	05/06/2023 01:33	WG2054566
Naphthalene	U		0.00100	0.00500	1	05/06/2023 01:33	WG2054566
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/06/2023 01:33	WG2054566
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/06/2023 01:33	WG2054566
(S) Toluene-d8	86.3			80.0-120		05/06/2023 01:33	WG2054566
(S) 4-Bromofluorobenzene	109			77.0-126		05/06/2023 01:33	WG2054566
(S) 1,2-Dichloroethane-d4	143	J1		70.0-130		05/06/2023 01:33	WG2054566

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	555		10.0	1	05/05/2023 10:42	WG2054594

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	9.96		0.379	1.00	1	05/06/2023 06:52	WG2055244
Sulfate	152		0.594	5.00	1	05/06/2023 06:52	WG2055244

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/06/2023 01:52	WG2054566
Toluene	U		0.000278	0.00100	1	05/06/2023 01:52	WG2054566
Ethylbenzene	U		0.000137	0.00100	1	05/06/2023 01:52	WG2054566
Xylenes, Total	0.000209	J	0.000174	0.00300	1	05/06/2023 01:52	WG2054566
Naphthalene	U		0.00100	0.00500	1	05/06/2023 01:52	WG2054566
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/06/2023 01:52	WG2054566
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/06/2023 01:52	WG2054566
(S) Toluene-d8	90.8			80.0-120		05/06/2023 01:52	WG2054566
(S) 4-Bromofluorobenzene	101			77.0-126		05/06/2023 01:52	WG2054566
(S) 1,2-Dichloroethane-d4	137	J1		70.0-130		05/06/2023 01:52	WG2054566

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	561		10.0	1	05/05/2023 10:42	WG2054594

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	9.98		0.379	1.00	1	05/06/2023 07:08	WG2055244
Sulfate	152		0.594	5.00	1	05/06/2023 07:08	WG2055244

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	05/06/2023 02:11	WG2054566
Toluene	U		0.000278	0.00100	1	05/06/2023 02:11	WG2054566
Ethylbenzene	U		0.000137	0.00100	1	05/06/2023 02:11	WG2054566
Xylenes, Total	0.000194	<u>J</u>	0.000174	0.00300	1	05/06/2023 02:11	WG2054566
Naphthalene	U		0.00100	0.00500	1	05/06/2023 02:11	WG2054566
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	05/06/2023 02:11	WG2054566
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	05/06/2023 02:11	WG2054566
(S) Toluene-d8	87.1			80.0-120		05/06/2023 02:11	WG2054566
(S) 4-Bromofluorobenzene	109			77.0-126		05/06/2023 02:11	WG2054566
(S) 1,2-Dichloroethane-d4	143	<u>J1</u>		70.0-130		05/06/2023 02:11	WG2054566

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3922214-1 05/05/23 13:12

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1610957-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1610957-01 05/05/23 13:12 • (DUP) R3922214-3 05/05/23 13:12

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	41200	50500	1	20.3	J3	5

L1611210-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1611210-01 05/05/23 13:12 • (DUP) R3922214-4 05/05/23 13:12

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	792	896	1	12.3	J3	5

Laboratory Control Sample (LCS)

(LCS) R3922214-2 05/05/23 13:12

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8530	96.9	77.3-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3922245-1 05/05/23 10:42

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1611393-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1611393-01 05/05/23 10:42 • (DUP) R3922245-3 05/05/23 10:42

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	261	260	1	0.384		5

L1611478-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1611478-01 05/05/23 10:42 • (DUP) R3922245-4 05/05/23 10:42

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	293	308	1	4.99		5

Laboratory Control Sample (LCS)

(LCS) R3922245-2 05/05/23 10:42

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8720	99.1	77.3-123	

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3922033-1 05/05/23 21:16

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1612512-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1612512-05 05/05/23 22:37 • (DUP) R3922033-3 05/05/23 22:51

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	9.66	9.62	1	0.414		15
Sulfate	148	148	1	0.0321		15

L1612512-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1612512-20 05/06/23 04:01 • (DUP) R3922033-7 05/06/23 04:14

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	10.4	10.4	1	0.162		15
Sulfate	157	157	1	0.0702		15

Laboratory Control Sample (LCS)

(LCS) R3922033-2 05/05/23 21:29

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	39.4	98.5	80.0-120	
Sulfate	40.0	37.8	94.4	80.0-120	

L1612512-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1612512-05 05/05/23 22:37 • (MS) R3922033-4 05/05/23 23:05 • (MSD) R3922033-5 05/05/23 23:18

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	9.66	59.7	59.5	100	99.7	1	80.0-120			0.302	15
Sulfate	50.0	148	192	191	87.6	86.1	1	80.0-120			0.389	15

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1612512-20 Original Sample (OS) • Matrix Spike (MS)

(OS) L1612512-20 05/06/23 04:01 • (MS) R3922033-8 05/06/23 04:28

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	10.4	59.6	98.4	1	80.0-120	
Sulfate	50.0	157	200	84.6	1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3922062-1 05/05/23 15:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1609632-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1609632-01 05/05/23 23:59 • (DUP) R3922062-3 05/06/23 00:14

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	153	153	1	0.00490		15
Sulfate	246	246	1	0.00939	E	15

L1612512-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1612512-23 05/06/23 04:13 • (DUP) R3922062-6 05/06/23 04:29

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	9.96	9.98	1	0.183		15
Sulfate	150	150	1	0.0356		15

Laboratory Control Sample (LCS)

(LCS) R3922062-2 05/05/23 15:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.7	99.3	80.0-120	
Sulfate	40.0	40.1	100	80.0-120	

L1609632-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1609632-01 05/05/23 23:59 • (MS) R3922062-4 05/06/23 00:30 • (MSD) R3922062-5 05/06/23 00:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	153	191	191	77.2	77.1	1	80.0-120	J6	J6	0.00439	15
Sulfate	50.0	246	285	284	77.5	76.2	1	80.0-120	E V	E V	0.235	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1612512-23 Original Sample (OS) • Matrix Spike (MS)

(OS) L1612512-23 05/06/23 04:13 • (MS) R3922062-7 05/06/23 05:17

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	9.96	59.3	98.7	1	80.0-120	
Sulfate	50.0	150	195	90.8	1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3921875-3 05/04/23 23:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Toluene	U		0.000278	0.00100
Ethylbenzene	U		0.000137	0.00100
Xylenes, Total	U		0.000174	0.00300
Naphthalene	U		0.00100	0.00500
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
(S) Toluene-d8	119			80.0-120
(S) 4-Bromofluorobenzene	107			77.0-126
(S) 1,2-Dichloroethane-d4	109			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3921875-1 05/04/23 22:32 • (LCSD) R3921875-2 05/04/23 23:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00473	0.00459	94.6	91.8	70.0-123			3.00	20
Toluene	0.00500	0.00480	0.00470	96.0	94.0	79.0-120			2.11	20
Ethylbenzene	0.00500	0.00469	0.00465	93.8	93.0	79.0-123			0.857	20
Xylenes, Total	0.0150	0.0136	0.0141	90.7	94.0	79.0-123			3.61	20
Naphthalene	0.00500	0.00427	0.00417	85.4	83.4	54.0-135			2.37	20
1,2,4-Trimethylbenzene	0.00500	0.00460	0.00458	92.0	91.6	76.0-121			0.436	20
1,3,5-Trimethylbenzene	0.00500	0.00472	0.00459	94.4	91.8	76.0-122			2.79	20
(S) Toluene-d8				115	115	80.0-120				
(S) 4-Bromofluorobenzene				108	109	77.0-126				
(S) 1,2-Dichloroethane-d4				110	109	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3921805-2 05/05/23 17:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Toluene	U		0.000278	0.00100
Ethylbenzene	U		0.000137	0.00100
Xylenes, Total	U		0.000174	0.00300
Naphthalene	U		0.00100	0.00500
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
(S) Toluene-d8	99.3			80.0-120
(S) 4-Bromofluorobenzene	104			77.0-126
(S) 1,2-Dichloroethane-d4	104			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3921805-1 05/05/23 16:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00488	97.6	70.0-123	
Toluene	0.00500	0.00418	83.6	79.0-120	
Ethylbenzene	0.00500	0.00408	81.6	79.0-123	
Xylenes, Total	0.0150	0.0129	86.0	79.0-123	
Naphthalene	0.00500	0.00392	78.4	54.0-135	
1,2,4-Trimethylbenzene	0.00500	0.00394	78.8	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00391	78.2	76.0-122	
(S) Toluene-d8			92.6	80.0-120	
(S) 4-Bromofluorobenzene			104	77.0-126	
(S) 1,2-Dichloroethane-d4			122	70.0-130	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

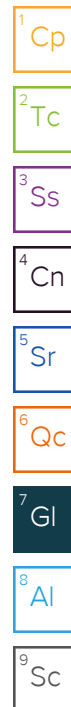
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

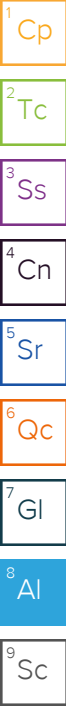
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



CHAIN-OF-CUSTODY Analytical Request Document

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

Company: **Campos EPC**

Address: **1401 Blake St. Denver, CO 80202**

Report To: **Brett Middleton**

Copy To: **jjanicek@caerusoilandgas.com**

Customer Project Name/Number: **LOVE RANCH 8**

Phone: 970-619-0800

Email: same as above

Collected By (print): **Steve Sivigliano / Parker Coit**

Collected By (signature): *[Signature]*

Sample Disposal: ☒ Dispose as appropriate ☐ Return ☐ Hold:

Site/Facility ID #: **LOVE RANCH 8**

Purchase Order #: **Quote #:**

Turnaround Date Required: **standard 2-Day**

Rush: ☐ Same Day ☐ Next Day ☒ 2 Day ☐ 3 Day ☐ 4 Day ☐ 5 Day (Expedite Charges Apply)

Compliance Monitoring? ☐ Yes ☐ No

DW PWS ID #: **DW Location Code:**

Immediately Packed on Ice: ☒ Yes ☐ No

Field Filtered (if applicable): ☐ Yes ☒ No

Analysis:

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
20230503-LOVE RANCH 8-(ST-PC-DG07)	GW		5/3/2023	10:08	-	-	-	5
20230503-LOVE RANCH 8-(ST-PC-DG08)	GW		5/3/2023	10:15	-	-	-	5
20230503-LOVE RANCH 8-(ST-PC-DG09)	GW		5/3/2023	10:13	-	-	-	5
20230503-LOVE RANCH 8-(ST-PC-DG10)	GW		5/3/2023	10:20	-	-	-	5
20230503-LOVE RANCH 8-(ST-PC-DG11)	GW		5/3/2023	10:20	-	-	-	5
20230503-LOVE RANCH 8-(ST-PC-DG12)	GW		5/3/2023	09:20	-	-	-	5
20230503-LOVE RANCH 8-(ST-PC-DG13)	GW		5/3/2023	09:05	-	-	-	5
20230503-LOVE RANCH 8-(ST-PC-BG)	GW		5/3/2023	11:31	-	-	-	5
20230503-LOVE RANCH 8-(ST-PC-HG)	GW		5/3/2023	11:50	-	-	-	5
20230503-LOVE RANCH 8-(ST-PC-CR24)	GW		5/3/2023	11:58	-	-	-	5

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

Relinquished by/Company: (Signature) *[Signature]* Date/Time: **5/3/23-1450**

Relinquished by/Company: (Signature) *[Signature]* Date/Time: **5/3/23 1600**

Relinquished by/Company: (Signature) *[Signature]* Date/Time: **5/4/23 0900**

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA

Custody Signatures Present Y N NA

Collector Signature Present Y N NA

Bottles Intact Y N NA

Correct Bottles Y N NA

Sufficient Volume Y N NA

Samples Received on Ice Y N NA

VOA - Headspace Acceptable Y N NA

USDA Regulated Soils Y N NA

Samples in Holding Time Y N NA

Residual Chlorine Present Y N NA

Cl Strips: Y N NA

Sample pH Acceptable Y N NA

pH Strips: Y N NA

Sulfide Present Y N NA

Lead Acetate Strips: Y N NA

LAB USE ONLY:

Lab Sample # / Comments: **1612512**

COGCC TABLE 915-1 (FULL LIST)

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

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#:

Cooler 1 Temp Upon Receipt: oC

Cooler 1 Therm Corr. Factor: oC

Cooler 1 Corrected Temp: oC

Comments:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: **2** of: **3**

