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Operations Lead, Portfolio Operations Central

October 20, 2021

New Mexico Oil Conservation Division – District I
1625 N. French Drive
Hobbs, New Mexico 88240

**Re: 2021 Soil Assessment Report – Vacuum Glorieta Central Battery
Case No. 1RP-2622
Lea County, New Mexico**

Dear Bradford Billings:

Chevron Environmental Management Company (CEMC) submits herein the *2021 Soil Assessment Report* for 1RP-2622, Vacuum Glorieta Central Battery. The Site is located approximately 1.10 miles southwest of Buckeye, in Unit C, Section 36, Township 17 South, Range 34 East, Lea County, New Mexico. The Report was prepared by Arcadis U.S., Inc. (Arcadis), on behalf of CEMC. Based on the 2021 soil investigation data, additional assessment activities will be evaluated, and a proposed scope will be included in a Work Plan for review and approval to further delineate chloride impact in soil.

If you have any questions regarding this submittal, please contact Scott Foord of Arcadis at (713) 953-4853 or me at (505) 690 5408.

Respectfully,

A handwritten signature in blue ink, appearing to read "Armando Martinez".

Armando Martinez

Encl. 2021 Soil Assessment Report – Vacuum Glorieta Central Battery

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Chevron Environmental Management Company

2021 Soil Assessment Report

**Vacuum Glorieta Central Battery
NMOCD Case No. 1RP-2622**

September 2021

2021 Soil Assessment Report

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Vacuum Glorieta Central Battery
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September 2021

Prepared By:

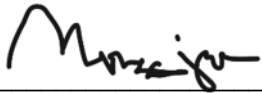
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2021 Soil Assessment Report

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2021 Soil Assessment Report

1 Introduction

Arcadis U.S., Inc. (Arcadis) prepared this Soil Assessment Report (Report), on behalf of Chevron Environmental Management Company (CEMC), summarizing the 2021 soil assessment activities conducted for the Vacuum Glorieta Central Battery (Site).

2 Project Summary

The Site is located approximately 1.10 miles southwest of Buckeye, in Unit C, Section 36, Township 17 South, Range 34 East, Lea County, New Mexico. A site location map is included as **Figure 1**.

On June 13, 2010, a 10-inch diameter buried steel produced water transfer line located between the transfer pumps and the horizontal injection pump released approximately 264 barrels (bbls) of produced water. The areas impacted were reportedly limited to the VGWU Production Battery and the adjacent injection facility (VGWU Sat 1) with some runoff towards a well location south of the tank battery. The Initial C-141 Form stated vacuum trucks recovered approximately 180 bbls of free-standing fluid. According to the New Mexico Office of the State Engineers (NMOSE) database, there is a water well 0.22 miles west of the Site with a depth to groundwater of 105 feet below ground surface (bgs). The Initial C-141 Form was submitted to the New Mexico Oil Conservation Division (NMOCD) on June 14, 2010 and approved by NMOCD on June 22, 2010. The release was assigned remediation permit number 1RP-2622. The Initial C-141 Form is included as **Appendix A**.

On September 14 -17, 2020, an initial soil assessment was conducted. Arcadis personnel collected soil samples from 30 locations (SB-1 through SB-30) within the release area. Twenty-three of the soil borings (SB-1 through SB-23) were advanced within the bermed areas of the VGWU Production Battery and the injection facility (VGWU Sat 1), and seven soil borings (SB-24 through SB-30) were advanced on the pad area south of the facility. Hand auger refusal was encountered in all soil borings at shallow depths. The VGWU Production Battery and the injection facility (VGWU Sat 1) are currently active with numerous above and below ground utilities. A deferral request for additional assessment of impacts within the bermed area of the facility was requested in the 2020 Soil Assessment Report, and these areas will be addressed (assessed and excavated) during site restoration activities that will be conducted following abandonment of this facility at a future date. Analytical results associated with the assessment activities south of the facility indicated that concentrations of total petroleum hydrocarbons (TPH) above the applicable New Mexico Administrative Code (NMAC) standard for depth to groundwater greater than 100 feet bgs, and chloride above the restoration screening criteria of 600 milligrams per kilogram (mg/kg) within the top four feet bgs of the soil column are present in the vicinity of SB-24, SB-26, SB-27, and SB-28.

Based upon the findings presented in the 2020 report, additional soil assessment activities were recommended to further delineate the TPH and chloride impacts in soil south of the injection facility (VGWU Sat 1). The 2020 Soil Assessment Report was submitted to the NMOCD on November 13, 2020.

3 2021 Additional Soil Assessment

On May 4-6, 2021, Arcadis personnel collected soil samples south of the facility based on analytical data evaluated from the prior soil assessment. Soil samples were collected from four previous assessed locations (SB-24, SB-26, SB-27, and SB-28) and from an additional 14 step-out locations (SB-31 through SB-42, SB-45, and SB-46) to further delineate the TPH and chloride impacts in soil south of the injection facility. The soil samples were collected with a backhoe at depths ranging from the surface to approximately six feet bgs. Backhoe refusal was encountered within all boring locations. Each boring location was backfilled with the remaining excavated soil

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after sample collection. Soils were characterized and logged by a field geologist based on the Unified Soil Classification System (USCS), including texture, structure, and consistency at each sample location from surface to total or refusal depths encountered within each boring. Boring logs for borings advanced deeper than two feet bgs are included in **Appendix B**. Soil sample locations are presented on **Figure 2**. A photographic log is presented in **Appendix C**. Sample containers (four oz. glass jars) were supplied by Pace Analytical, and samples were collected and placed on ice for overnight shipment to Pace Analytical in Mount Juliet, Tennessee.

The soil samples were analyzed for:

- TPH as gasoline range organic (TPH-GRO) by USEPA Method 8015;
- TPH as diesel range organic (TPH-DRO) by USEPA Method 8015;
- TPH as motor oil range organic (TPH-MRO) by USEPA Method 8015; and
- Chloride by USEPA Method 300.

4 Soil Analytical Results

The soil analytical results were compared to the revised NMAC screening levels for the specific analytical constituents specified in **Table 1** within revised Rule 19.15.29. The specific analytical constituents for this site include TPH (GRO + DRO), Total TPH (GRO + DRO + MRO), and chloride for depth to groundwater greater than 100 feet bgs. Total TPH is recognized as the sum of the hydrocarbon chains from C6 to C36. A summary of the soil sample analytical results is presented in the attached **Table 1**. Copies of the certified analytical reports and chain-of-custody documentation from Pace Analytical are presented in **Appendix D**. The soil analytical map is presented as **Figure 3**.

4.1 TPH

- TPH (GRO + DRO) concentrations were reported below the NMAC standard of 1,000 mg/kg at all sample locations.
- Total TPH (GRO + DRO + MRO) concentrations were reported below the NMAC standard of 2,500 mg/kg at all sample locations.

4.2 Chloride

- Chloride concentrations were reported below the revised Rule 19.15.29 screening limit of 20,000 mg/kg at all sample locations. However, concentrations did exceed the revised Rule (19.15.29.13) restoration screening criteria of 600 mg/kg within the top four feet bgs of the soil column at 11 sample locations (SB-24, SB-26, SB-27, SB-32, SB-35, SB-38, SB-39, SB-40, SB-42, SB-45, and SB-46).
 - SB-24
 - (1 – 1.5 ft) at 1,130 mg/kg
 - SB-26
 - (1 – 1.5 ft) at 633 mg/kg
 - SB-27
 - (1.5 – 2 ft) at 2,440 mg/kg
 - SB-32

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- (3.5 – 4 ft) at 1,090 mg/kg
- SB-35
 - (1 – 1.5 ft) at 637 mg/kg
- SB-38
 - (1.5 – 1.75 ft) at 1,520 mg/kg
- SB-39
 - (1.25 – 1.5 ft) at 872 mg/kg
- SB-40
 - (1.5 – 1.75 ft) at 749 mg/kg
- SB-42
 - (0 – 0.5 ft) at 689 mg/kg
 - (1.5 – 1.75 ft) at 1,160 mg/kg
- SB-45
 - (1.5 – 1.75 ft) at 719 mg/kg
- SB-46
 - (1.5 – 2 ft) at 3,610 mg/kg
 - (2.5 – 2.75 ft) at 1,240 mg/kg
- Sample location SB-32 exceeded the restoration screening criteria at depth (3.5 – 4 ft). However, the sample location did not exceed the revised Rule 19.15.29 screening limit of 20,000 mg/kg at sample collected at deeper depth (5.5 – 6 ft).

5 Conclusion

- A deferral request for additional assessment of impacts within the bermed area of the VGWU Production Battery and the injection facility (VGWU Sat 1) was requested in the 2020 Soil Assessment Report submitted to the NMOCD on November 13, 2020. The facility is currently active with numerous above and below ground utilities. These areas will be addressed (assessed and excavated) during site restoration activities that will be conducted following abandonment of this facility at a future date.
- Analytical results associated with the recent assessment activities indicate that concentrations of chloride above the restoration screening criteria of 600 mg/kg within the top four feet bgs of the soil column are present in surface and shallow soil in the vicinity of (SB-24, SB-26, SB-27, SB-35, SB-38, SB-39, SB-40, SB-42, SB-45, and SB-46). Based upon the findings presented in this report, additional soil assessment activities are recommended to further delineate chloride impacts in soil south of the facility. The revised C-141 Form is presented in **Appendix E**.

Tables

Table 1
Summary of Soil Analytical Results
Chevron Environmental Management Company
Vaccum Giorietta Central Battery
Lea County, New Mexico



Sample I.D. No.	Sample Depth (feet bgs)	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH - GRO	TPH-DRO	Total - GRO + DRO	TPH - MRO	Total TPH	Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMAC Standards				--	--	--	50	--	--	1,000	--	2,500	20,000
Restoration Requirements													600*
SB-1	0-0.5'	09/14/20	<0.000685	<0.0015	<0.00111	<0.00123	<0.000685	<0.598	3.16 J	3.16 J	16.7	19.9	10.3
	1.0'-1.5'	09/14/20	<0.000741	<0.00162	<0.0012	<0.00133	<0.000741	<0.600	6.21 J	6.21 J	28.8	35.01	4.19 J
SB-2	0-0.5'	09/14/20	<0.000679	<0.00149	<0.0011	<0.00122	<0.000679	<0.621	8.06 J	8.06 J	25.9	33.96	5.86
SB-3	0-0.5'	09/14/20	<0.000721	<0.00158	<0.00117	<0.00129	<0.000721	<0.640	10.0	10.0	23.7	33.7	12.4
SB-4	0-0.5'	09/14/20	<0.000734	<0.00161	<0.00119	<0.00132	<0.000734	<0.579	375	375	1,080	1,455	346
SB-5	0-0.5'	09/14/20	0.000971 J	<0.00171	<0.00126	<0.0014	0.000971 J	1.08 J	58.5	59.58 J	182	241.6	1,680
SB-6	0-0.25'	09/14/20	<0.000629	0.00217 J	<0.00102	<0.00113	0.00217 J	<0.636	14.2	14.2	76.5	90.7	2,020
SB-7	0-0.5'	09/14/20	<0.000683	0.0172	<0.00111	<0.00123	0.0172	<0.665	3,910	3,910	6,750	10,660	136
SB-8	0-0.5'	09/14/20	<0.000646	0.0169	<0.00105	<0.00116	0.0169	0.651 J	1,110	1,111	4,170	5,281	26.0
SB-9	0-0.25'	09/14/20	0.00178 J	0.0673	<0.00133	0.00276 J	0.07184 J	0.874 J	291	291.87	838	1,130	589
SB-10	0-0.5'	09/14/20	<0.000613	0.0133	<0.000993	<0.0011	0.0133	<0.567	687	687	2,560	3,247	3,480
SB-11	0-0.5'	09/15/20	<0.000645	0.00708	<0.00104	<0.00116	0.00708	<0.572	2,510	2,510	9,190	11,700	3,870
SB-12	0-0.25'	09/15/20	<0.000643	0.0231	<0.00104	<0.00115	0.0231	<0.617	9,510	9,510	40,400	49,910	4,520
SB-13	0-0.25'	09/15/20	<0.000642	0.00217 J	<0.00104	<0.00115	0.00217 J	<0.591	397	397	2,550	2,947	1,730
SB-14	0-0.5'	09/15/20	<0.000644	0.00206 J	<0.00104	<0.00115	0.00206 J	<0.580	627	627	2,240	2,867	650
SB-15	0-0.25'	09/15/20	<0.000639	0.0113	<0.00104	<0.00115	0.0113	<0.589	4,770	4,770	19,200	23,970	4,880
SB-16	0-0.5'	09/15/20	<0.000718	<0.00157	<0.00116	<0.00129	<0.000718	<0.692	538	538	2,400	2,938	1,700
SB-17	0-0.25'	09/15/20	<0.000636	0.0256	<0.00103	0.00243 J	0.25843 J	<0.574	2,140	2,140	12,100	14,240	1,510
SB-18	0-0.25'	09/15/20	<0.000635	0.0364	<0.00103	0.00193 J	0.03833 J	<0.565	7,820	7,820	30,800	38,620	4,640
SB-19	0-0.5'	09/15/20	<0.000662	0.0107	<0.00107	0.00245 J	0.01315 J	<0.609	11.4	11.4	78.8	90.2	7,370
SB-20	0-0.5'	09/16/20	<0.000687	0.00231 J	<0.00111	<0.00123	0.00231 J	<0.675	846	846	3,680	4,526	4,900
SB-21	0-0.5'	09/16/20	<0.000649	0.00329 J	<0.00105	<0.00116	0.00329 J	<0.562	2,470	2,470	11,300	13,770	5,640
DUP 1 (SB-21)	0-0.5'	09/16/20	<0.000661	<0.00145	<0.00107	<0.00118	<0.000661	<0.608	1,960	1,960	5,960	7,920	5,790
SB-22	0-0.5'	09/16/20	<0.000595	0.00700	<0.000963	<0.00107	0.00700	<0.557	4,340	4,340	17,300	21,640	5,530
	1'-1.25'	09/16/20	<0.000771	0.00398 J	<0.00125	<0.00138	0.00398 J	<0.739	315	315	2,130	2,445	3,830
SB-23	0-0.5'	09/16/20	<0.000750	<0.00164	<0.00121	<0.00134	<0.000750	<0.715	2,970	2,970	16,300	19,270	89.4
	1.0'-2.0'	09/16/20	<0.000835	0.00554 J	<0.00135	<0.00150	0.00554 J	<0.833	3,630	3,630	18,700	22,330	252
SB-24	0-0.5'	09/16/20	<0.000682	0.00781	<0.00110	<0.00122	0.00781	0.695 J	762	762.7	3,020	3,783	1,850
	1.0'-1.5'	05/05/21	NA	NA	NA	NA	NA	<0.0233	<1.73	<1.73	2.07 J	2.07 J	1,130
SB-25	0-0.5'	09/16/20	<0.000651	0.00273 J	<0.00105	<0.00117	0.00273 J	<0.603	287	287	1,880	2,167	536
SB-26	0-0.5'	09/17/20	<0.000671	0.0202	<0.00109	0.00189 J	0.02209 J	0.732 J	2,000	2,000.73 J	11,400	13,401	953
	1.0'-1.5'	05/04/21	NA	NA	NA	NA	NA	<0.0278	6.28	6.28	15	21.28	633
SB-27	0-0.5'	09/17/20	<0.000745	0.00313 J	<0.00121	<0.00134	0.00313 J	<0.659	172	172	1,270	1,442	1,280
DUP 2 (SB-27)	0-0.5'	09/17/20	<0.000678	0.00592	<0.00110	<0.00122	0.00592	<0.701	233	233	1,610	1,843	953
SB-27	1.5'-2.0'	05/05/21	NA	NA	NA	NA	NA	<0.0270	<2.01	<2.01	1.69 J	1.69 J	2,440
SB-28	0-0.5'	09/17/20	<0.000657	0.0147	<0.00106	0.00173 J	0.01643 J	<0.635	47.3	47.3	136	183.3	484
	1.0'-2.0'	09/17/20	<0.000751	0.00261 J	<0.00122	<0.00135	0.00261 J	<0.759	35.5	35.5	75	110.5	1,610
	1.5'-2.0'	05/04/21	NA	NA	NA	NA	NA	0.0522 BJ	<1.90	0.522 BJ	0.843 J	1.37	145
SB-29	0-0.5'	09/17/20	<0.000823	0.00481 J	<0.00133	<0.00148	0.00481 J	<0.804	187	187	359	546	147
SB-30	0-0.5'	09/17/20	0.000672 J	0.0113	<0.000942	0.00204 J	0.014012 J	0.637 J	56.8	57.437 J	322	379.437 J	27.2
SB-31	0-0.5'	05/04/21	NA	NA	NA	NA	NA	0.107 BJ	<2.08	0.107 B J	4.14 J	4.517 B J	<11.9
	1.5'-2.0'	05/04/21	NA	NA	NA	NA	NA	0.0292 BJ	<1.77	0.0292 B J	2.03 J	2.0592 B J	456
SB-32	0-0.5'	05/04/21	NA	NA	NA	NA	NA	0.0481 J	15.9	0.0481 J	18.7	18.75	448
	1.5'-2.0'	05/04/21	NA	NA	NA	NA	NA	<0.0271	2.60 J	2.60 J	0.451 J	3.05	486
	3.5'-4.0'	05/04/21	NA	NA	NA	NA	NA	<0.0266	14.4	14.4	3.46 J	17.86 J	1,090
	5.5'-6.0'	05/04/21	NA	NA	NA	NA	NA	<0.0264	17.4	17.4	2.24 J	19.64 J	473
SB-33	0-0.5'	05/05/21	NA	NA	NA	NA	NA	<0.0281	5.73	5.73	10.6	16.33	<11.9
	1.5'-2.0'	05/05/21	NA	NA	NA	NA	NA	<0.0253	2.51 J	2.51 J	2.21 J	4.72 J	341
SB-34	0-0.5'	05/04/21	NA	NA	NA	NA	NA	<0.0243	486	486	1,440	1,926	56.6
	1.0'-1.25'	05/04/21	NA	NA	NA	NA	NA	0.0576 BJ	18.3	18.3576	57.4	75.76	426
SB-35	0-0.5'	05/04/21	NA	NA	NA	NA	NA	<0.0286	83.1	83.1	276	359.10	454
	1.0'-1.5'	05/04/21	NA	NA	NA	NA	NA	<0.0243	50.2	50.2	165	215.20	637

Table 1
Summary of Soil Analytical Results
Chevron Environmental Management Company
Vaccum Giorietta Central Battery
Lea County, New Mexico

Sample I.D. No.	Sample Depth (feet bgs)	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH - GRO	TPH-DRO	Total - GRO + DRO	TPH - MRO	Total TPH	Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMAC Standards				--	--	--	50	--	--	1,000	--	2,500	20,000
SB-36	0-0.5'	05/04/21	NA	NA	NA	NA	NA	<0.0252	9.56	9.56	20.3	29.86	<10.7
	1.5'-2.0'	05/04/21	NA	NA	NA	NA	NA	<0.0251	467	467	1,080	1,547	479
SB-37	0-0.5'	05/05/21	NA	NA	NA	NA	NA	<0.0255	3.37 J	3.37 J	14.3	17.37	98.6
	1.5'-2.0'	05/05/21	NA	NA	NA	NA	NA	<0.0240	<1.78	<1.78	0.862 J	0.862 J	540 J5
SB-38	0-0.5'	05/05/21	NA	NA	NA	NA	NA	<0.0271	<2.01 J3 J6	<2.01 J3 J6	8.73	8.73	140
	1.5'-1.75'	05/05/21	NA	NA	NA	NA	NA	<0.0231	<1.71	<1.71	0.645 J	0.645 J	1,520
SB-39	0-0.5'	05/05/21	NA	NA	NA	NA	NA	<0.0280	<2.08	<2.08	4.04 J	4.04 J	108
	1.25-1.5	05/05/21	NA	NA	NA	NA	NA	<0.0228	<1.69	<1.69	2.14 J	2.14 J	872
SB-40	0-0.5'	05/05/21	NA	NA	NA	NA	NA	<0.0245	16.4	16.4	48.8	65.20	458
	1.5'-1.75'	05/05/21	NA	NA	NA	NA	NA	<0.0240	2.93 J	2.93 J	4.84	7.77 J	749
SB-41	0-0.5'	05/05/21	NA	NA	NA	NA	NA	<0.0260	91.3	91.3	154	245.30	<11.0
	1.0'-1.5'	05/05/21	NA	NA	NA	NA	NA	<0.0243	4.44 J	4.44 J	11.5	15.94 J	29.8
SB-41 Dup	0-0.5'	05/05/21	NA	NA	NA	NA	NA	<0.0252	86.8	86.8	160	246.80	<10.7
SB-42	0-0.5'	05/05/21	NA	NA	NA	NA	NA	<0.0250	17.6	17.6	44.3	61.90	689
	1.5'-1.75'	05/05/21	NA	NA	NA	NA	NA	0.0382 BJ	<1.77	0.0382 B J	1.24 J	1.2782 B J	1,160
SB-42 Dup	0-0.5'	05/05/21	NA	NA	NA	NA	NA	0.0476 BJ	12.4	12.4476 B J	28	40.4476 B J	885
SB-45	0-0.5'	05/06/21	NA	NA	NA	NA	NA	0.0640 BJ	4.49	4.554 B J	20.3	24.854 B J	41.6
	1.5'-1.75'	05/06/21	NA	NA	NA	NA	NA	0.0265 BJ	<1.69	0.0265 B J	2.22 J	2.2465 B J	719
SB-46	0-0.5'	05/06/21	NA	NA	NA	NA	NA	0.0478 BJ	6.23	6.2778 B J	21	27.2778 B J	348
	1.5'-2.0'	05/06/21	NA	NA	NA	NA	NA	0.0303 BJ	<1.87	0.0303 B J	5.73	5.7603 B J	3,610
	2.5'-2.75'	05/06/21	NA	NA	NA	NA	NA	0.0243 BJ	<1.74	0.0243 B J	0.399 J	0.4233 B J	1,240

Legend:

BOLD = Analytes exceeding NMAC standards

J: Result is less than the Reporting Limit but greater than or equal to the MDL and the concentration is an approximate value

B: The same analyte is found in the associated blank

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

'<' indicates the analyte was not detected at or above the Method Detection Limit (MDL)

mg/kg: Milligram per Kilogram

NA: Not Analyzed

BTEX: Benzene, Toluene, Ethylbenzene, and Total Xylenes

NMAC: New Mexico Administration Code

TPH GRO: Total Petroleum Hydrocarbons Gasoline Range Organics

TPH DRO: Total Petroleum Hydrocarbon Diesel Range Organics

TPH MRO: Total Petroleum Hydrocarbons Motor Oil Range Organics

" " " : Indicates foot

" : Indicated inches

*Revised screening limit and restoration criteria within the first 4 feet below ground surface per Rule 19.15.29 effective August 14, 2018

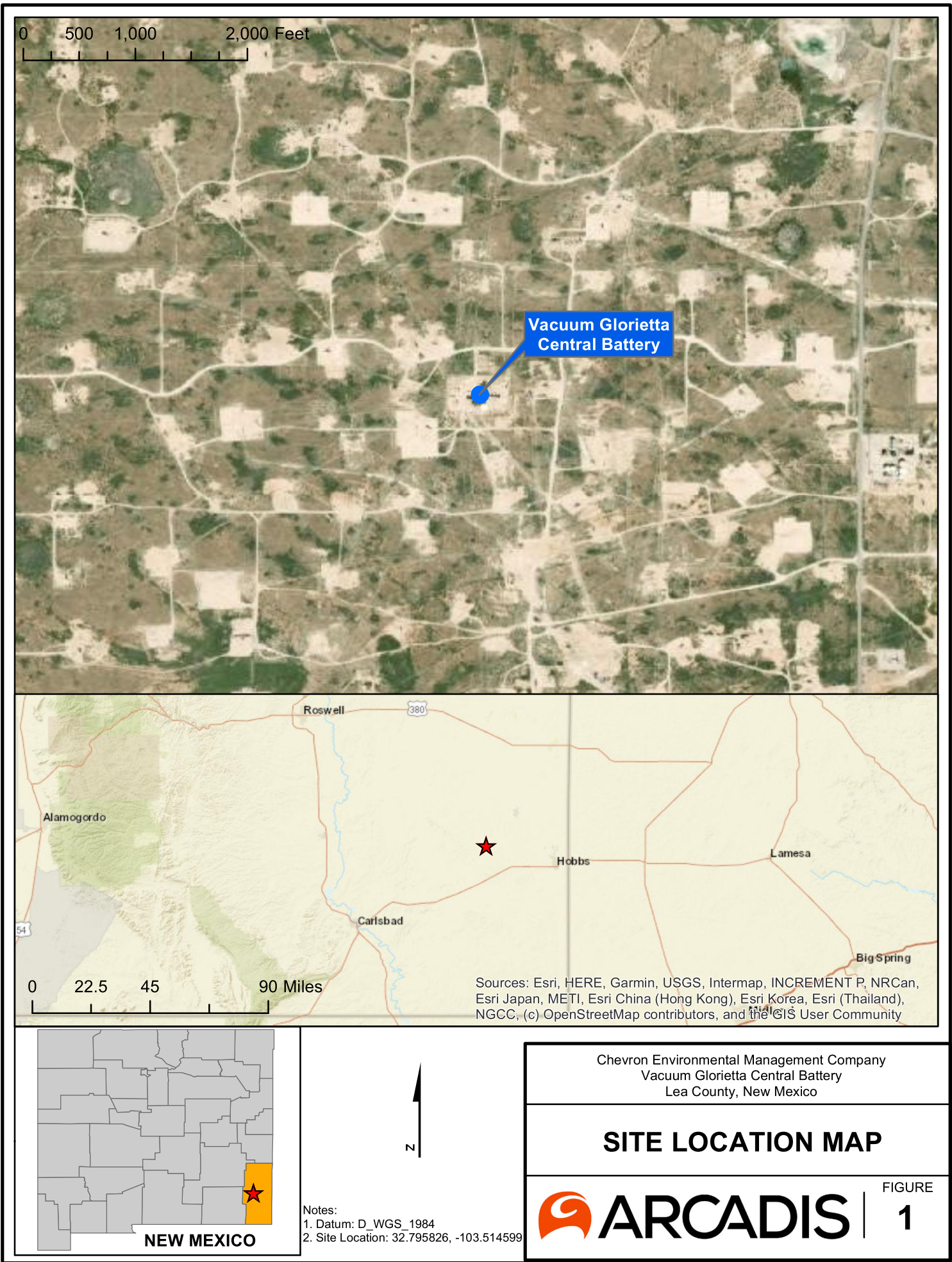
DUP: Duplicate sample

Notes:

1. Chloride analyzed by United States Environmental Protection Agency Method 300.0
2. TPH analyzed by USEPA Method 8015D
3. BTEX analyzed by USEPA Method 8260C
4. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

Figures

Document Path: D:\Projects\2020\Chevron\MXD\Figure 1 - Site Location Map_VG.mxd

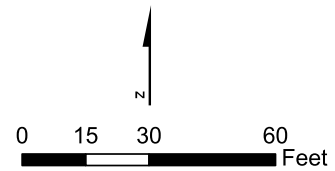




Legend

- Soil Sample Locations

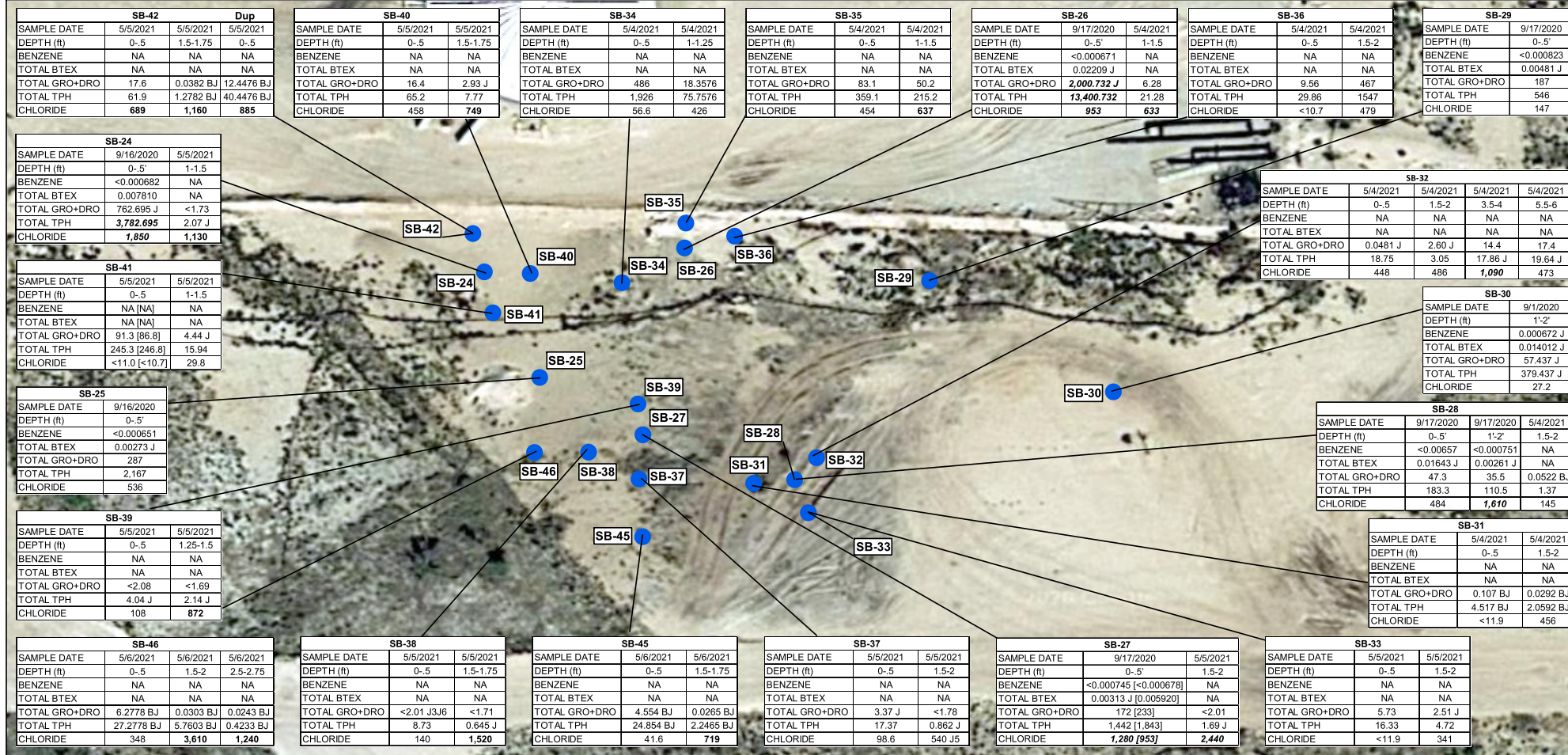
Note:
1. Datum: GCS_WGS_1984
2. Site Location: 32.795826°, -103.514599°



Chevron Environmental Management Company
Vacuum Glorieta Central Battery
Lea County, New Mexico

SOIL SAMPLE LOCATION MAP





- Notes:**
- BOLD** = Analytes exceeding NMAC standards and restoration requirements for Chloride
 - <' Indicates the analyte was not detected at or above the Method Detection Limit (MDL).
 - J Indicates Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 - NMAC Indicates New Mexico Administration Code.
 - All values are in mg/kg (Milligram per Kilogram).
 - *** Indicates one foot.
 - BTEX Indicates Benzene, Toluene, Ethylbenzene, and Total Xylenes.
 - TPH GRO Indicates Total Petroleum Hydrocarbons Gasoline Range Organics.
 - TPH ORO Indicates Total Petroleum Hydrocarbons Oil Range Organics.
 - TPH DRO Indicates Total Petroleum Hydrocarbon Diesel Range Organics.
 - * Revised screening limit and restoration criteria within the first 4 feet below ground surface per Rule 19.15.29 effective August 14, 2018.
 - TPH analyzed by DRO/ORO Method SW8015.
 - <0.000678- Duplicate Results
 - Closure Criteria New Mexico Administrative Code 16.15.29.12 E(2).
 - 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.
 - B: The same analyte is found in the associated blank.

Analyte	NMAC Standards	Restoration requirements
BENZENE	10	--
TOTAL BTEX	50	--
TOTAL GRO+DRO	1,000	--
TOTAL TPH	2,500	--
CHLORIDE	20,000	600

Chevron Environmental Management Company
 Vacuum Glorietta Central Battery
 Lea County, New Mexico

SOIL ANALYTICAL RESULTS MAP



FIGURE

3

Appendix A

Initial C-141 Form 1RP-2622

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

JUN 22 2010

HOBBSOCD

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

X

Initial Report

Final Report

Name of Company Chevron USA	Contact Tejay Simpson
Address HCR 60 Box 423 Lovington, N.M. 88260	Telephone No. 505-396-4414 X 201
Facility Name Vacuum Glorieta Central Battery	Facility Type Production & Injection Battery
Surface Owner State of New Mexico	Mineral Owner State of NM
Lease No. OGRID No. B-155	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	South Line	Feet from the	East Line	County
B	36	17.0S	34.0E					Lea

Latitude: 32.795826 Degree / Longitude: -103.514599

Chloride: 65,000

NATURE OF RELEASE

API #30-025-30716 (VGWU 60)

Type of Release Produced Water (65,000 Chloride)	Volume of Release Produced Water: 264 Barrels	Volume Recovered 180 Barrels
Source of Release 10" buried steel transfer line from transfer pumps to horizontal injection pump suction	Date and Hour of Occurrence 06/13/2010 @ 07:13	Date and Hour of Discovery 06/13/2010 @ 07:50
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Elidio Gonzales	
By Whom?	Date and Hour 06/13/2010 @ 17:25	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.* CW 9122'		

Describe Cause of Problem and Remedial Action Taken.*

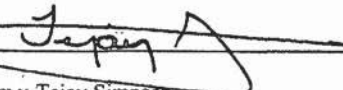
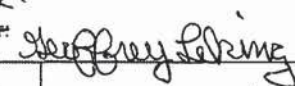
At 07:13:42 hours a callout alarm was activated for horizontal pump (H-Pump) shutdown at Vacuum Glorieta West Unit (VGWU) Sat.1 - middle pump. A second callout alarm was activated at 07:18:12 hours for VGWU Sat 3 H-pump. The alarms were remotely acknowledge by Field Specialist (FS) at 07:27:07 hours. FS responded to the facility and discovered a leak in progress and shut down the remaining H-pump and transfer pumps at 07:50:36 hours. The leak was identified as coming from a buried water transfer line from the suction tank transfer pump feeding the suction of the horizontal injection pumps. The line was isolated to stop the leak and the producing wells were shut it to prevent tank overflow. Vacuum trucks were dispatched to the scene and recovered all free standing fluid (180 BBLs). A gang was dispatched to the location and it was determined the buried line was not repairable. Two temporary lines were installed and the H-pumps at Sat 1 were returned to operation at approximately 18:00 hours. The H-pump at Sat 3 could not be returned to operation. Ten wells accounting for approximately 120 BO and 16,000 BW remain shut in until additional repairs can be made. Note: the line that failed was a buried 10" steel line of undetermined age.

Describe Area Affected and Cleanup Action Taken.

Area of impact was primarily limited to the combined VGWU Production Battery and injection facility (VGWU Sat 1) with some run off to a well location on the south side of the battery. Vacuum trucks were dispatched to the location and recovered a total of 180 barrels of produced water. A water sample was pulled from the pooled up area located on the southeast corner of the location where some rain water had accumulated. Soil impact was broken up into three primary areas. Area 1 (14,866 square feet) was assumed 100% impact at average depth of 6". Area 2 (10,907 square feet) was assumed 50% impact at average depth of 3". Area 3 (5,341 square feet) was assumed 50% impact at average depth of 3". All soil impact calculations based upon 5% soil saturation. Dirt contractor will be dispatched to scrape up damp contaminated caliche from the impact area within the battery. Final battery clean up is recommended to be completed during abandonment of the facility. Impact area outside of the facility will be tested and a follow-up work plan submitted.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: 	ENV. ENGINEER	
Printed Name: Tejay Simpson	Approved by District Supervisor: 	
Title: Operations Supervisor	Approval Date: 06/22/10	Expiration Date: 08/23/10
E-mail Address tscq@chevron.com	Conditions of Approval: DELINEATE TO CLEAN UP, SO THAT IS IS VERIFIED THAT WAITING UNTIL FINAL ABANDONMENT IS SAFE FOR GROUND WATER. REMEDIATE APPROPRIATELY.	Attached ☐ IRP-10-9-2622
Date: 06-14-2010 6:22:10 PM Phone: 396-4414 X 201		

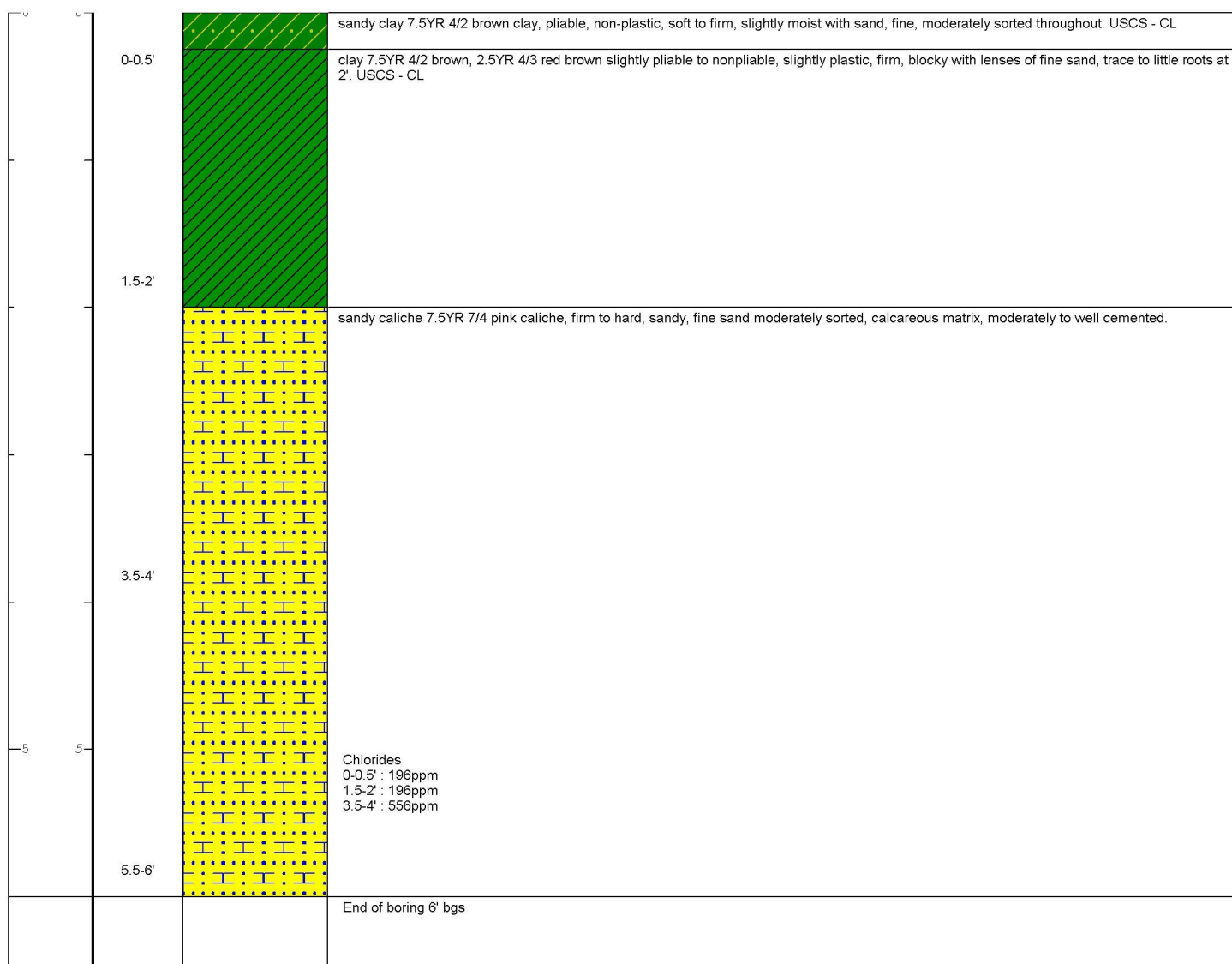
* Attach Additional Sheets If Necessary

Appendix B

Boring Logs

Date Start/Finish: 5/04/2021 Drilling Company: Etech Drilling Method: Backhoe Sampling Method: Grab	Borehole Depth: 6' Surface Elevation: N/A Descriptions By: Justin Steinmann	Well/Boring ID: SB-32 Client: Chevron Location: VGCB Buckeye, NM
--	--	---

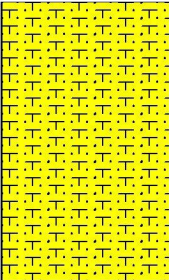
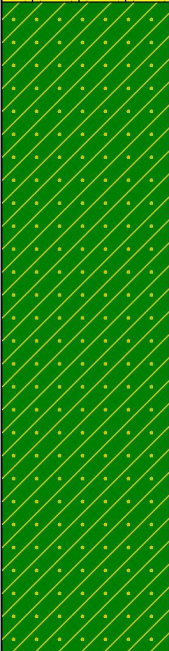
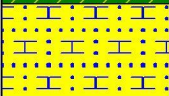
DEPTH	Sample Interval	Geologic Column	Stratigraphic Description
-------	-----------------	-----------------	---------------------------



	Remarks: Total Depth: 6' Below Ground Surface (bgs)
---	--

Date Start/Finish: 5/06/2021 Drilling Company: Etech Drilling Method: Backhoe Sampling Method: Grab	Borehole Depth: 2.75' Surface Elevation: N/A Descriptions By: Justin Steinmann	Well/Boring ID: SB-46 Client: Chevron Location: VGCB Buckeye, NM
--	---	---

DEPTH	Sample Interval	Geologic Column	Stratigraphic Description
-------	-----------------	-----------------	---------------------------

0-0.5'		silty sand 10YR 7/3 very pale brown very fine to fine sand, well sorted, subrounded, loose, silty, with trace granules to cobbles, hard, rounded, calcareous, trace roots, dry. USCS - SM
1.5-2'		sandy clay 5YR 4/3 reddish brown, pliable, firm, nonplastic, dry, with little to some sand, very fine to fine, moderately sorted, scattered throughout. USCS - CL
2.5-2.75'		caliche 7.5YR 8/4 pink caliche, hard, bedded, moderately to well cemented, with lenses of sandy caliche.
		End of boring 2.75' bgs

	Remarks: Total Depth: 2.75' Below Ground Surface (bgs)
---	---

Appendix C

Photographic Log

ARCADIS		PHOTOGRAPHIC LOG	
Property Name: Vacuum Glorieta Central Battery		Location: Lea County, NM	Case No. 1RP-2622
Photo No. 1	Date: 5/4/2021		
Direction Photo Taken: Facing East			
Description: 20 ft south of fence in vicinity of SB-26 and SB-35			

ARCADIS		PHOTOGRAPHIC LOG	
Property Name: Vacuum Glorieta Central Battery		Location: Lea County, NM	Case No. 1RP-2622
Photo No. 2	Date: 5/4/2021		
Direction Photo Taken: Facing North			
Description: South of Facility, in vicinity of SB-37 and SB-45			

ARCADIS		PHOTOGRAPHIC LOG	
Property Name: Vacuum Glorieta Central Battery		Location: Lea County, NM	Case No. 1RP-2622
Photo No. 3	Date: 5/4/2021		
Direction Photo Taken: Facing North			
Description: 50 ft South of abandoned well and SB-30			

ARCADIS		PHOTOGRAPHIC LOG	
Property Name: Vacuum Glorieta Central Battery		Location: Lea County, NM	Case No. 1RP-2622
Photo No. 4	Date: 5/4/2021		
Direction Photo Taken: Facing West			
Description: East side of pad, down facility berm and fence line			

Appendix D

Laboratory Report



ANALYTICAL REPORT

May 20, 2021

Arcadis - Chevron - TX

Sample Delivery Group: L1349835
Samples Received: 05/07/2021
Project Number: 30057161-0004B
Description: VG CB
Site: VG CB
Report To: Morgan Jordan
1717 W 6th St.
Suite 210
Austin, TX 78703

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chris McCord".

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.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1
Tc: Table of Contents	2
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Cn: Case Narrative	11
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¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

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

SB-39-S-1.25-1.5-210505 L1349835-01 Solid

Collected by Justin Steinmann
Collected date/time 05/05/21 11:30
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1668574	1	05/12/21 10:32	05/12/21 10:38	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1669569	1	05/13/21 00:12	05/13/21 06:28	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668042	1	05/08/21 21:14	05/11/21 09:49	TPR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1670824	1	05/14/21 18:11	05/17/21 13:35	TJD	Mt. Juliet, TN

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

SB-38-S-0-.5-210505 L1349835-02 Solid

Collected by Justin Steinmann
Collected date/time 05/05/21 11:45
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1668574	1	05/12/21 10:32	05/12/21 10:38	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670404	1	05/13/21 19:00	05/14/21 01:49	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668042	1	05/08/21 21:14	05/11/21 10:11	TPR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669278	1	05/13/21 21:21	05/14/21 19:20	TJD	Mt. Juliet, TN

SB-38-S-1.5-1.75-210505 L1349835-03 Solid

Collected by Justin Steinmann
Collected date/time 05/05/21 12:00
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1668574	1	05/12/21 10:32	05/12/21 10:38	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670404	10	05/13/21 19:00	05/14/21 01:58	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1670058	1	05/08/21 21:14	05/13/21 14:23	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669278	1	05/13/21 21:21	05/14/21 18:26	TJD	Mt. Juliet, TN

SB-40-S-0-.5-210505 L1349835-04 Solid

Collected by Justin Steinmann
Collected date/time 05/05/21 13:04
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1668574	1	05/12/21 10:32	05/12/21 10:38	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670404	1	05/13/21 19:00	05/14/21 02:08	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668243	1	05/08/21 21:14	05/11/21 21:32	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669278	1	05/13/21 21:21	05/14/21 21:48	TJD	Mt. Juliet, TN

SB-40-S-1.5-1.75-210505 L1349835-05 Solid

Collected by Justin Steinmann
Collected date/time 05/05/21 13:15
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1668574	1	05/12/21 10:32	05/12/21 10:38	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670404	1	05/13/21 19:00	05/14/21 02:17	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668243	1	05/08/21 21:14	05/11/21 21:54	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669278	1	05/13/21 21:21	05/14/21 21:21	TJD	Mt. Juliet, TN

SB-41-S-0-.5-210505 L1349835-06 Solid

Collected by Justin Steinmann
Collected date/time 05/05/21 13:35
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1668574	1	05/12/21 10:32	05/12/21 10:38	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670404	1	05/13/21 19:00	05/14/21 02:27	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1672860	1	05/08/21 21:14	05/18/21 18:48	TPR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669278	1	05/13/21 21:21	05/14/21 22:14	TJD	Mt. Juliet, TN

SB-41-SD-0-.5-210505 L1349835-07 Solid

Collected by Justin Steinmann
Collected date/time 05/05/21 00:00
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1668574	1	05/12/21 10:32	05/12/21 10:38	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670404	1	05/13/21 19:00	05/14/21 02:46	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668243	1	05/08/21 21:14	05/11/21 22:38	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669278	1	05/13/21 21:21	05/14/21 22:28	TJD	Mt. Juliet, TN

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

SB-41-S-1-1.5-210505 L1349835-08 Solid

Collected by Justin Steinmann
Collected date/time 05/05/21 13:45
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1668574	1	05/12/21 10:32	05/12/21 10:38	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670404	1	05/13/21 19:00	05/14/21 02:55	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668243	1	05/08/21 21:14	05/11/21 23:00	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669278	1	05/13/21 21:21	05/14/21 20:27	TJD	Mt. Juliet, TN

SB-24-S-1-1.5-210505 L1349835-09 Solid

Collected by Justin Steinmann
Collected date/time 05/05/21 14:20
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669072	1	05/13/21 11:17	05/13/21 11:23	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670404	10	05/13/21 19:00	05/14/21 03:24	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668243	1	05/08/21 21:14	05/11/21 23:22	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669278	1	05/13/21 21:21	05/14/21 21:07	TJD	Mt. Juliet, TN

SB-42-S-0-.5-210505 L1349835-10 Solid

Collected by Justin Steinmann
Collected date/time 05/05/21 14:30
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669072	1	05/13/21 11:17	05/13/21 11:23	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670404	1	05/13/21 19:00	05/14/21 03:33	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668243	1	05/08/21 21:14	05/11/21 23:45	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669278	1	05/13/21 21:21	05/14/21 21:34	TJD	Mt. Juliet, TN

SB-32-S-0-.5-210504 L1349835-11 Solid

Collected by Justin Steinmann
Collected date/time 05/04/21 14:30
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669072	1	05/13/21 11:17	05/13/21 11:23	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670404	1	05/13/21 19:00	05/14/21 03:43	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668243	1	05/08/21 21:14	05/12/21 00:07	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669928	1	05/12/21 15:51	05/13/21 23:08	TJD	Mt. Juliet, TN

SB-32-S-1.5-2-210504 L1349835-12 Solid

Collected by Justin Steinmann
Collected date/time 05/04/21 14:45
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669072	1	05/13/21 11:17	05/13/21 11:23	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670404	1	05/13/21 19:00	05/14/21 03:52	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668243	1	05/08/21 21:14	05/12/21 00:29	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669278	1	05/13/21 21:21	05/14/21 18:12	TJD	Mt. Juliet, TN

SB-32-S-3.5-4-210504 L1349835-13 Solid

Collected by Justin Steinmann
Collected date/time 05/04/21 15:00
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669072	1	05/13/21 11:17	05/13/21 11:23	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670404	10	05/13/21 19:00	05/14/21 04:02	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668243	1	05/08/21 21:14	05/12/21 00:52	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669278	1	05/13/21 21:21	05/14/21 20:14	TJD	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

SB-32-S-5.5-6-210504 L1349835-14 Solid

Collected by Justin Steinmann
Collected date/time 05/04/21 15:27
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669072	1	05/13/21 11:17	05/13/21 11:23	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670404	1	05/13/21 19:00	05/14/21 04:11	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668243	1	05/08/21 21:14	05/12/21 01:14	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669278	1	05/13/21 21:21	05/14/21 20:00	TJD	Mt. Juliet, TN

SB-33-S-0.5-210505 L1349835-15 Solid

Collected by Justin Steinmann
Collected date/time 05/05/21 09:41
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669074	1	05/13/21 18:59	05/13/21 19:12	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670404	1	05/13/21 19:00	05/14/21 04:21	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668243	1	05/08/21 21:14	05/12/21 01:36	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669278	1	05/13/21 21:21	05/14/21 20:41	TJD	Mt. Juliet, TN

SB-33-S-1.5-2-210505 L1349835-16 Solid

Collected by Justin Steinmann
Collected date/time 05/05/21 09:50
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669074	1	05/13/21 18:59	05/13/21 19:12	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670404	1	05/13/21 19:00	05/14/21 04:31	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668243	1	05/08/21 21:14	05/12/21 01:58	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669278	1	05/13/21 21:21	05/14/21 18:39	TJD	Mt. Juliet, TN

SB-37-S-0.5-210505 L1349835-17 Solid

Collected by Justin Steinmann
Collected date/time 05/05/21 10:15
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669074	1	05/13/21 18:59	05/13/21 19:12	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670404	1	05/13/21 19:00	05/14/21 04:40	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668251	1	05/08/21 21:14	05/11/21 19:44	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669278	1	05/13/21 21:21	05/14/21 20:54	TJD	Mt. Juliet, TN

SB-37-S-1.5-2-210505 L1349835-18 Solid

Collected by Justin Steinmann
Collected date/time 05/05/21 10:26
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669074	1	05/13/21 18:59	05/13/21 19:12	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670404	1	05/13/21 19:00	05/14/21 05:18	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1669176	1	05/08/21 21:14	05/12/21 19:02	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669278	1	05/13/21 21:21	05/14/21 19:06	TJD	Mt. Juliet, TN

SB-27-S-1.5-2-210505 L1349835-19 Solid

Collected by Justin Steinmann
Collected date/time 05/05/21 11:10
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669074	1	05/13/21 18:59	05/13/21 19:12	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670407	10	05/13/21 19:32	05/14/21 23:45	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1669176	1	05/08/21 21:14	05/12/21 19:24	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669278	1	05/13/21 21:21	05/14/21 18:53	TJD	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

SB-39-S-0.5-210505 L1349835-20 Solid

Collected by Justin Steinmann
Collected date/time 05/05/21 11:22
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669074	1	05/13/21 18:59	05/13/21 19:12	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670407	1	05/13/21 19:32	05/14/21 23:55	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1669176	1	05/08/21 21:14	05/12/21 19:46	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669282	1	05/14/21 01:23	05/15/21 01:22	TJD	Mt. Juliet, TN

SB-36-S-0.5-210504 L1349835-21 Solid

Collected by Justin Steinmann
Collected date/time 05/04/21 11:01
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669074	1	05/13/21 18:59	05/13/21 19:12	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670407	1	05/13/21 19:32	05/15/21 00:04	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1669176	1	05/08/21 21:14	05/12/21 20:08	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669282	1	05/14/21 01:23	05/15/21 02:29	TJD	Mt. Juliet, TN

SB-36-S-1.5-2-210504 L1349835-22 Solid

Collected by Justin Steinmann
Collected date/time 05/04/21 11:30
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669074	1	05/13/21 18:59	05/13/21 19:12	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670407	1	05/13/21 19:32	05/15/21 00:14	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1669176	1	05/08/21 21:14	05/12/21 20:30	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669282	10	05/14/21 01:23	05/15/21 03:49	TJD	Mt. Juliet, TN

SB-26-S-1-1.5-210504 L1349835-23 Solid

Collected by Justin Steinmann
Collected date/time 05/04/21 12:00
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669074	1	05/13/21 18:59	05/13/21 19:12	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670407	1	05/13/21 19:32	05/15/21 00:23	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668251	1	05/08/21 21:14	05/11/21 20:06	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669282	1	05/14/21 01:23	05/15/21 02:42	TJD	Mt. Juliet, TN

SB-35-S-0.5-210504 L1349835-24 Solid

Collected by Justin Steinmann
Collected date/time 05/04/21 12:05
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669074	1	05/13/21 18:59	05/13/21 19:12	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670407	1	05/13/21 19:32	05/15/21 00:33	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668251	1	05/08/21 21:14	05/11/21 20:28	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669282	2	05/14/21 01:23	05/15/21 03:22	TJD	Mt. Juliet, TN

SB-35-S-1-1.5-210504 L1349835-25 Solid

Collected by Justin Steinmann
Collected date/time 05/04/21 12:15
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669086	1	05/13/21 19:14	05/13/21 19:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670407	1	05/13/21 19:32	05/15/21 00:43	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668251	1	05/09/21 15:55	05/11/21 20:50	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669282	2	05/14/21 01:23	05/15/21 03:36	TJD	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

SB-34-S-O-.5-210504 L1349835-26 Solid

Collected by Justin Steinmann
Collected date/time 05/04/21 12:30
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669086	1	05/13/21 19:14	05/13/21 19:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670407	1	05/13/21 19:32	05/15/21 01:21	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668251	1	05/09/21 15:55	05/11/21 21:12	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669282	10	05/14/21 01:23	05/15/21 04:02	TJD	Mt. Juliet, TN

SB-34-S-1-1.25-210504 L1349835-27 Solid

Collected by Justin Steinmann
Collected date/time 05/04/21 12:45
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669086	1	05/13/21 19:14	05/13/21 19:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670407	1	05/13/21 19:32	05/15/21 00:52	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668257	1	05/09/21 15:55	05/12/21 02:40	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669282	1	05/14/21 01:23	05/15/21 03:09	TJD	Mt. Juliet, TN

SB-31-S-O-.5-210504 L1349835-28 Solid

Collected by Justin Steinmann
Collected date/time 05/04/21 13:35
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669086	1	05/13/21 19:14	05/13/21 19:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670407	1	05/13/21 19:32	05/15/21 01:59	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668257	1	05/09/21 15:55	05/12/21 03:04	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669282	1	05/14/21 01:23	05/15/21 00:42	TJD	Mt. Juliet, TN

SB-31-S-1.5-2-210504 L1349835-29 Solid

Collected by Justin Steinmann
Collected date/time 05/04/21 13:45
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669086	1	05/13/21 19:14	05/13/21 19:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670407	1	05/13/21 19:32	05/15/21 02:08	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668257	1	05/09/21 15:55	05/12/21 03:28	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669282	1	05/14/21 01:23	05/15/21 00:28	TJD	Mt. Juliet, TN

SB-28-S-1.5-2-210504 L1349835-30 Solid

Collected by Justin Steinmann
Collected date/time 05/04/21 14:10
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669086	1	05/13/21 19:14	05/13/21 19:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670407	1	05/13/21 19:32	05/15/21 02:18	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668257	1	05/09/21 15:55	05/12/21 03:51	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669282	1	05/14/21 01:23	05/14/21 23:48	TJD	Mt. Juliet, TN

SB-42-SD-0-.5-210505 L1349835-31 Solid

Collected by Justin Steinmann
Collected date/time 05/05/21 00:00
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669086	1	05/13/21 19:14	05/13/21 19:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670407	1	05/13/21 19:32	05/15/21 02:27	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668257	1	05/09/21 15:55	05/12/21 04:15	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669282	1	05/14/21 01:23	05/15/21 02:56	TJD	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

SB-42-S-1.5-1.75-210505 L1349835-32 Solid

Collected by Justin Steinmann
Collected date/time 05/05/21 14:45
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669086	1	05/13/21 19:14	05/13/21 19:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670407	10	05/13/21 19:32	05/15/21 02:37	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668257	1	05/09/21 15:55	05/12/21 04:39	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669282	1	05/14/21 01:23	05/15/21 00:02	TJD	Mt. Juliet, TN

SB-45-S-0-.5-210506 L1349835-33 Solid

Collected by Justin Steinmann
Collected date/time 05/06/21 11:45
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669086	1	05/13/21 19:14	05/13/21 19:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670407	1	05/13/21 19:32	05/15/21 02:46	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668257	1	05/09/21 15:55	05/12/21 05:03	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669282	1	05/14/21 01:23	05/15/21 02:16	TJD	Mt. Juliet, TN

SB-45-S-1.5-1.75-210506 L1349835-34 Solid

Collected by Justin Steinmann
Collected date/time 05/06/21 12:06
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669086	1	05/13/21 19:14	05/13/21 19:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670407	10	05/13/21 19:32	05/15/21 03:15	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668257	1	05/09/21 15:55	05/12/21 05:27	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669282	1	05/14/21 01:23	05/15/21 00:15	TJD	Mt. Juliet, TN

SB-46-S-0-.5-210506 L1349835-35 Solid

Collected by Justin Steinmann
Collected date/time 05/06/21 12:15
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669090	1	05/13/21 18:01	05/13/21 18:11	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670407	1	05/13/21 19:32	05/15/21 03:24	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668257	1	05/09/21 15:55	05/12/21 05:51	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669282	1	05/14/21 01:23	05/15/21 01:35	TJD	Mt. Juliet, TN

SB-46-S-1.5-2-210506 L1349835-36 Solid

Collected by Justin Steinmann
Collected date/time 05/06/21 12:30
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669090	1	05/13/21 18:01	05/13/21 18:11	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670407	10	05/13/21 19:32	05/15/21 03:34	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668257	1	05/09/21 15:55	05/12/21 06:14	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669282	1	05/14/21 01:23	05/15/21 01:09	TJD	Mt. Juliet, TN

SAMPLE SUMMARY

SB-46-S-2.5-2.75-210506 L1349835-37 Solid

Collected by Justin Steinmann
Collected date/time 05/06/21 12:45
Received date/time 05/07/21 12:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1669090	1	05/13/21 18:01	05/13/21 18:11	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1670407	10	05/13/21 19:32	05/15/21 03:53	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668257	1	05/09/21 15:55	05/12/21 06:38	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1669282	1	05/14/21 01:23	05/15/21 00:55	TJD	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Collected date/time: 05/05/21 11:30

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.3		1	05/12/2021 10:38	WG1668574

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	872		9.66	21.0	1	05/13/2021 06:28	WG1669569

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0228	0.105	1	05/11/2021 09:49	WG1668042
(S) a,a,a-Trifluorotoluene(FID)	91.3			77.0-120		05/11/2021 09:49	WG1668042

5 Sr

6 Qc

7 Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.69	4.20	1	05/17/2021 13:35	WG1670824
C28-C36 Motor Oil Range	2.14	J	0.288	4.20	1	05/17/2021 13:35	WG1670824
(S) o-Terphenyl	19.1			18.0-148		05/17/2021 13:35	WG1670824

8 Al

9 Sc

Collected date/time: 05/05/21 11:45

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.1		1	05/12/2021 10:38	WG1668574

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	140		11.5	25.0	1	05/14/2021 01:49	WG1670404

5 Sr

6 Qc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0271	0.125	1	05/11/2021 10:11	WG1668042
(S) a,a,a-Trifluorotoluene(FID)	92.3			77.0-120		05/11/2021 10:11	WG1668042

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U	J3 J6	2.01	4.99	1	05/14/2021 19:20	WG1669278
C28-C36 Motor Oil Range	8.73		0.342	4.99	1	05/14/2021 19:20	WG1669278
(S) o-Terphenyl	40.2			18.0-148		05/14/2021 19:20	WG1669278

9 Sc

Collected date/time: 05/05/21 12:00

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.1		1	05/12/2021 10:38	WG1668574

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1520		97.8	213	10	05/14/2021 01:58	WG1670404

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0231	0.106	1	05/13/2021 14:23	WG1670058
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120		05/13/2021 14:23	WG1670058

5 Sr

6 Qc

7 Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.71	4.25	1	05/14/2021 18:26	WG1669278
C28-C36 Motor Oil Range	0.645	J	0.291	4.25	1	05/14/2021 18:26	WG1669278
(S) o-Terphenyl	56.1			18.0-148		05/14/2021 18:26	WG1669278

8 Al

9 Sc

SB-40-8-0-5-210505

Collected date/time: 05/05/21 13:04

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.5		1	05/12/2021 10:38	WG1668574

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	458		10.4	22.6	1	05/14/2021 02:08	WG1670404

5 Sr

6 Qc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0245	0.113	1	05/11/2021 21:32	WG1668243
(S) a,a,a-Trifluorotoluene(FID)	114			77.0-120		05/11/2021 21:32	WG1668243

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	16.4		1.82	4.52	1	05/14/2021 21:48	WG1669278
C28-C36 Motor Oil Range	48.8		0.310	4.52	1	05/14/2021 21:48	WG1669278
(S) o-Terphenyl	56.8			18.0-148		05/14/2021 21:48	WG1669278

9 Sc

SB-403-1.5-1.73-210505

Collected date/time: 05/05/21 13:15

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.4		1	05/12/2021 10:38	WG1668574

¹ Cp

² Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	749		10.2	22.1	1	05/14/2021 02:17	WG1670404

³ Ss

⁴ Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0240	0.111	1	05/11/2021 21:54	WG1668243
(S) a,a,a-Trifluorotoluene(FID)	116			77.0-120		05/11/2021 21:54	WG1668243

⁵ Sr

⁶ Qc

⁷ Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.93	J	1.78	4.42	1	05/14/2021 21:21	WG1669278
C28-C36 Motor Oil Range	4.84		0.303	4.42	1	05/14/2021 21:21	WG1669278
(S) o-Terphenyl	56.0			18.0-148		05/14/2021 21:21	WG1669278

⁸ Al

⁹ Sc

Collected date/time: 05/05/21 13:35

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.6		1	05/12/2021 10:38	WG1668574

¹ Cp² Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		11.0	23.9	1	05/14/2021 02:27	WG1670404

³ Ss⁴ Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0260	0.120	1	05/18/2021 18:48	WG1672860
(S) a,a,a-Trifluorotoluene(FID)	115			77.0-120		05/18/2021 18:48	WG1672860

⁵ Sr⁶ Qc⁷ Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	91.3		1.93	4.79	1	05/14/2021 22:14	WG1669278
C28-C36 Motor Oil Range	154		0.328	4.79	1	05/14/2021 22:14	WG1669278
(S) o-Terphenyl	60.9			18.0-148		05/14/2021 22:14	WG1669278

⁸ Al⁹ Sc

Collected date/time: 05/05/21 00:00

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.1		1	05/12/2021 10:38	WG1668574

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		10.7	23.2	1	05/14/2021 02:46	WG1670404

5 Sr

6 Qc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0252	0.116	1	05/11/2021 22:38	WG1668243
(S) a,a,a-Trifluorotoluene(FID)	115			77.0-120		05/11/2021 22:38	WG1668243

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	86.8		1.87	4.64	1	05/14/2021 22:28	WG1669278
C28-C36 Motor Oil Range	160		0.318	4.64	1	05/14/2021 22:28	WG1669278
(S) o-Terphenyl	50.3			18.0-148		05/14/2021 22:28	WG1669278

9 Sc

Collected date/time: 05/05/21 13:45

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.2		1	05/12/2021 10:38	WG1668574

1
Cp2
Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	29.8		10.3	22.4	1	05/14/2021 02:55	WG1670404

3
Ss4
Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0243	0.112	1	05/11/2021 23:00	WG1668243
(S) a,a,a-Trifluorotoluene(FID)	115			77.0-120		05/11/2021 23:00	WG1668243

5
Sr6
Qc7
Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4.44	J	1.80	4.48	1	05/14/2021 20:27	WG1669278
C28-C36 Motor Oil Range	11.5		0.307	4.48	1	05/14/2021 20:27	WG1669278
(S) o-Terphenyl	61.0			18.0-148		05/14/2021 20:27	WG1669278

8
Al9
Sc

SB-24-3-1-1.5-210503
Collected date/time: 05/05/21 14:20

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.1		1	05/13/2021 11:23	WG1669072

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1130		98.9	215	10	05/14/2021 03:24	WG1670404

5 Sr

6 Qc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0233	0.107	1	05/11/2021 23:22	WG1668243
(S) a,a,a-Trifluorotoluene(FID)	114			77.0-120		05/11/2021 23:22	WG1668243

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.73	4.30	1	05/14/2021 21:07	WG1669278
C28-C36 Motor Oil Range	2.07	J	0.294	4.30	1	05/14/2021 21:07	WG1669278
(S) o-Terphenyl	55.2			18.0-148		05/14/2021 21:07	WG1669278

9 Sc

Collected date/time: 05/05/21 14:30

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.8		1	05/13/2021 11:23	WG1669072

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	689		10.6	23.1	1	05/14/2021 03:33	WG1670404

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0250	0.115	1	05/11/2021 23:45	WG1668243
(S) a,a,a-Trifluorotoluene(FID)	115			77.0-120		05/11/2021 23:45	WG1668243

5 Sr

6 Qc

7 Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	17.6		1.86	4.61	1	05/14/2021 21:34	WG1669278
C28-C36 Motor Oil Range	44.3		0.316	4.61	1	05/14/2021 21:34	WG1669278
(S) o-Terphenyl	51.7			18.0-148		05/14/2021 21:34	WG1669278

8 Al

9 Sc

Collected date/time: 05/04/21 14:30

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.4		1	05/13/2021 11:23	WG1669072

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	448		10.8	23.4	1	05/14/2021 03:43	WG1670404

5 Sr

6 Qc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0481	J	0.0254	0.117	1	05/12/2021 00:07	WG1668243
(S) a,a,a-Trifluorotoluene(FID)	115			77.0-120		05/12/2021 00:07	WG1668243

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	15.9		1.89	4.68	1	05/13/2021 23:08	WG1669928
C28-C36 Motor Oil Range	18.7		0.321	4.68	1	05/13/2021 23:08	WG1669928
(S) o-Terphenyl	55.0			18.0-148		05/13/2021 23:08	WG1669928

9 Sc

Collected date/time: 05/04/21 14:45

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.1		1	05/13/2021 11:23	WG1669072

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	486		11.5	25.0	1	05/14/2021 03:52	WG1670404

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0271	0.125	1	05/12/2021 00:29	WG1668243
(S) a,a,a-Trifluorotoluene(FID)	115			77.0-120		05/12/2021 00:29	WG1668243

5 Sr

6 Qc

7 Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.60	J	2.01	5.00	1	05/14/2021 18:12	WG1669278
C28-C36 Motor Oil Range	0.451	J	0.342	5.00	1	05/14/2021 18:12	WG1669278
(S) o-Terphenyl	46.1			18.0-148		05/14/2021 18:12	WG1669278

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.7		1	05/13/2021 11:23	WG1669072

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	1090		113	245	10	05/14/2021 04:02	WG1670404

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0266	0.122	1	05/12/2021 00:52	WG1668243
(S) a,a,a-Trifluorotoluene(FID)	116			77.0-120		05/12/2021 00:52	WG1668243

5 Sr

6 Qc

7 Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	14.4		1.97	4.90	1	05/14/2021 20:14	WG1669278
C28-C36 Motor Oil Range	3.46	J	0.335	4.90	1	05/14/2021 20:14	WG1669278
(S) o-Terphenyl	54.7			18.0-148		05/14/2021 20:14	WG1669278

8 Al

9 Sc

Collected date/time: 05/04/21 15:27

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.3		1	05/13/2021 11:23	WG1669072

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	473		11.2	24.3	1	05/14/2021 04:11	WG1670404

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0264	0.121	1	05/12/2021 01:14	WG1668243
(S) a,a,a-Trifluorotoluene(FID)	115			77.0-120		05/12/2021 01:14	WG1668243

5 Sr

6 Qc

7 Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	17.4		1.96	4.86	1	05/14/2021 20:00	WG1669278
C28-C36 Motor Oil Range	2.24	J	0.333	4.86	1	05/14/2021 20:00	WG1669278
(S) o-Terphenyl	54.8			18.0-148		05/14/2021 20:00	WG1669278

8 Al

9 Sc

Collected date/time: 05/05/21 09:41

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	77.2		1	05/13/2021 19:12	WG1669074

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		11.9	25.9	1	05/14/2021 04:21	WG1670404

5 Sr

6 Qc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0281	0.130	1	05/12/2021 01:36	WG1668243
(S) a,a,a-Trifluorotoluene(FID)	114			77.0-120		05/12/2021 01:36	WG1668243

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	5.73		2.09	5.18	1	05/14/2021 20:41	WG1669278
C28-C36 Motor Oil Range	10.6		0.355	5.18	1	05/14/2021 20:41	WG1669278
(S) o-Terphenyl	45.5			18.0-148		05/14/2021 20:41	WG1669278

9 Sc

Collected date/time: 05/05/21 09:50

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.6		1	05/13/2021 19:12	WG1669074

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	341		10.7	23.4	1	05/14/2021 04:31	WG1670404

5 Sr

6 Qc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0253	0.117	1	05/12/2021 01:58	WG1668243
(S) a,a,a-Trifluorotoluene(FID)	115			77.0-120		05/12/2021 01:58	WG1668243

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.51	J	1.88	4.67	1	05/14/2021 18:39	WG1669278
C28-C36 Motor Oil Range	2.21	J	0.320	4.67	1	05/14/2021 18:39	WG1669278
(S) o-Terphenyl	57.2			18.0-148		05/14/2021 18:39	WG1669278

9 Sc

Collected date/time: 05/05/21 10:15

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.1		1	05/13/2021 19:12	WG1669074

¹ Cp² Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	98.6		10.8	23.5	1	05/14/2021 04:40	WG1670404

³ Ss⁴ Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0255	0.117	1	05/11/2021 19:44	WG1668251
(S) a,a,a-Trifluorotoluene(FID)	91.5			77.0-120		05/11/2021 19:44	WG1668251

⁵ Sr⁶ Qc⁷ Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.37	J	1.89	4.70	1	05/14/2021 20:54	WG1669278
C28-C36 Motor Oil Range	14.3		0.322	4.70	1	05/14/2021 20:54	WG1669278
(S) o-Terphenyl	60.9			18.0-148		05/14/2021 20:54	WG1669278

⁸ Al⁹ Sc

Collected date/time: 05/05/21 10:26

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.3		1	05/13/2021 19:12	WG1669074

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	540	J5	10.2	22.1	1	05/14/2021 05:18	WG1670404

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0240	0.111	1	05/12/2021 19:02	WG1669176
(S) a,a,a-Trifluorotoluene(FID)	91.8			77.0-120		05/12/2021 19:02	WG1669176

5 Sr

6 Qc

7 Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.78	4.43	1	05/14/2021 19:06	WG1669278
C28-C36 Motor Oil Range	0.862	J	0.303	4.43	1	05/14/2021 19:06	WG1669278
(S) o-Terphenyl	56.7			18.0-148		05/14/2021 19:06	WG1669278

8 Al

9 Sc

Collected date/time: 05/05/21 11:10

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.3		1	05/13/2021 19:12	WG1669074

1
Cp2
Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	2440		115	249	10	05/14/2021 23:45	WG1670407

3
Ss4
Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0270	0.125	1	05/12/2021 19:24	WG1669176
(S) a,a,a-Trifluorotoluene(FID)	91.6			77.0-120		05/12/2021 19:24	WG1669176

5
Sr6
Qc7
Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		2.01	4.98	1	05/14/2021 18:53	WG1669278
C28-C36 Motor Oil Range	1.69	J	0.341	4.98	1	05/14/2021 18:53	WG1669278
(S) o-Terphenyl	60.6			18.0-148		05/14/2021 18:53	WG1669278

8
Al9
Sc

Collected date/time: 05/05/21 11:22

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	77.6		1	05/13/2021 19:12	WG1669074

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	108		11.9	25.8	1	05/14/2021 23:55	WG1670407

5 Sr

6 Qc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0280	0.129	1	05/12/2021 19:46	WG1669176
(S) a,a,a-Trifluorotoluene(FID)	91.5			77.0-120		05/12/2021 19:46	WG1669176

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		2.08	5.16	1	05/15/2021 01:22	WG1669282
C28-C36 Motor Oil Range	4.04	J	0.353	5.16	1	05/15/2021 01:22	WG1669282
(S) o-Terphenyl	47.6			18.0-148		05/15/2021 01:22	WG1669282

9 Sc

Collected date/time: 05/04/21 11:01

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.2		1	05/13/2021 19:12	WG1669074

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		10.7	23.2	1	05/15/2021 00:04	WG1670407

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0252	0.116	1	05/12/2021 20:08	WG1669176
(S) a,a,a-Trifluorotoluene(FID)	91.6			77.0-120		05/12/2021 20:08	WG1669176

5 Sr

6 Qc

7 Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	9.56		1.87	4.64	1	05/15/2021 02:29	WG1669282
C28-C36 Motor Oil Range	20.3		0.318	4.64	1	05/15/2021 02:29	WG1669282
(S) o-Terphenyl	53.3			18.0-148		05/15/2021 02:29	WG1669282

8 Al

9 Sc

Collected date/time: 05/04/21 11:30

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.6		1	05/13/2021 19:12	WG1669074

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	479		10.6	23.1	1	05/15/2021 00:14	WG1670407

5 Sr

6 Qc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0251	0.115	1	05/12/2021 20:30	WG1669176
(S) a,a,a-Trifluorotoluene(FID)	92.4			77.0-120		05/12/2021 20:30	WG1669176

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	467		18.6	46.2	10	05/15/2021 03:49	WG1669282
C28-C36 Motor Oil Range	1080		3.16	46.2	10	05/15/2021 03:49	WG1669282
(S) o-Terphenyl	81.3			18.0-148		05/15/2021 03:49	WG1669282

9 Sc

Collected date/time: 05/04/21 12:00

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	78.1		1	05/13/2021 19:12	WG1669074

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	633		11.8	25.6	1	05/15/2021 00:23	WG1670407

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0278	0.128	1	05/11/2021 20:06	WG1668251
(S) a,a,a-Trifluorotoluene(FID)	91.8			77.0-120		05/11/2021 20:06	WG1668251

5 Sr

6 Qc

7 Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	6.28		2.06	5.12	1	05/15/2021 02:42	WG1669282
C28-C36 Motor Oil Range	15.0		0.351	5.12	1	05/15/2021 02:42	WG1669282
(S) o-Terphenyl	52.7			18.0-148		05/15/2021 02:42	WG1669282

8 Al

9 Sc

Collected date/time: 05/04/21 12:05

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.8		1	05/13/2021 19:12	WG1669074

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	454		12.1	26.4	1	05/15/2021 00:33	WG1670407

5 Sr

6 Qc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0286	0.132	1	05/11/2021 20:28	WG1668251
(S) a,a,a-Trifluorotoluene(FID)	90.3			77.0-120		05/11/2021 20:28	WG1668251

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	83.1		4.25	10.5	2	05/15/2021 03:22	WG1669282
C28-C36 Motor Oil Range	276		0.723	10.5	2	05/15/2021 03:22	WG1669282
(S) o-Terphenyl	50.5			18.0-148		05/15/2021 03:22	WG1669282

9 Sc

Collected date/time: 05/04/21 12:15

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.3		1	05/13/2021 19:47	WG1669086

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	637		10.3	22.4	1	05/15/2021 00:43	WG1670407

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0243	0.112	1	05/11/2021 20:50	WG1668251
(S) a,a,a-Trifluorotoluene(FID)	92.0			77.0-120		05/11/2021 20:50	WG1668251

5 Sr

6 Qc

7 Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	50.2		3.61	8.96	2	05/15/2021 03:36	WG1669282
C28-C36 Motor Oil Range	165		0.614	8.96	2	05/15/2021 03:36	WG1669282
(S) o-Terphenyl	73.4			18.0-148		05/15/2021 03:36	WG1669282

8 Al

9 Sc

Collected date/time: 05/04/21 12:30

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.3		1	05/13/2021 19:47	WG1669086

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	56.6		10.3	22.4	1	05/15/2021 01:21	WG1670407

5 Sr

6 Qc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0243	0.112	1	05/11/2021 21:12	WG1668251
(S) a,a,a-Trifluorotoluene(FID)	89.0			77.0-120		05/11/2021 21:12	WG1668251

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	486		18.0	44.8	10	05/15/2021 04:02	WG1669282
C28-C36 Motor Oil Range	1440		3.07	44.8	10	05/15/2021 04:02	WG1669282
(S) o-Terphenyl	65.4			18.0-148		05/15/2021 04:02	WG1669282

9 Sc

Collected date/time: 05/04/21 12:45

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.2		1	05/13/2021 19:47	WG1669086

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	426		11.2	24.3	1	05/15/2021 00:52	WG1670407

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0576	B J	0.0264	0.122	1	05/12/2021 02:40	WG1668257
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120		05/12/2021 02:40	WG1668257

5 Sr

6 Qc

7 Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	18.3		1.96	4.87	1	05/15/2021 03:09	WG1669282
C28-C36 Motor Oil Range	57.4		0.333	4.87	1	05/15/2021 03:09	WG1669282
(S) o-Terphenyl	65.8			18.0-148		05/15/2021 03:09	WG1669282

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	77.4		1	05/13/2021 19:47	WG1669086

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		11.9	25.8	1	05/15/2021 01:59	WG1670407

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.107	B J	0.0280	0.129	1	05/12/2021 03:04	WG1668257
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120		05/12/2021 03:04	WG1668257

5 Sr

6 Qc

7 Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		2.08	5.17	1	05/15/2021 00:42	WG1669282
C28-C36 Motor Oil Range	4.14	J	0.354	5.17	1	05/15/2021 00:42	WG1669282
(S) o-Terphenyl	65.4			18.0-148		05/15/2021 00:42	WG1669282

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.2		1	05/13/2021 19:47	WG1669086

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	456		10.1	21.9	1	05/15/2021 02:08	WG1670407

5 Sr

6 Qc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0292	B J	0.0238	0.110	1	05/12/2021 03:28	WG1668257
(S) a,a,a-Trifluorotoluene(FID)	105			77.0-120		05/12/2021 03:28	WG1668257

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.77	4.39	1	05/15/2021 00:28	WG1669282
C28-C36 Motor Oil Range	2.03	J	0.300	4.39	1	05/15/2021 00:28	WG1669282
(S) o-Terphenyl	50.5			18.0-148		05/15/2021 00:28	WG1669282

9 Sc

Collected date/time: 05/04/21 14:10

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.7		1	05/13/2021 19:47	WG1669086

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	145		10.9	23.6	1	05/15/2021 02:18	WG1670407

5 Sr

6 Qc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0522	B J	0.0256	0.118	1	05/12/2021 03:51	WG1668257
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120		05/12/2021 03:51	WG1668257

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.90	4.72	1	05/14/2021 23:48	WG1669282
C28-C36 Motor Oil Range	0.843	J	0.324	4.72	1	05/14/2021 23:48	WG1669282
(S) o-Terphenyl	51.5			18.0-148		05/14/2021 23:48	WG1669282

9 Sc

Collected date/time: 05/05/21 00:00

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.7		1	05/13/2021 19:47	WG1669086

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	885		10.5	22.8	1	05/15/2021 02:27	WG1670407

5 Sr

6 Qc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0476	B J	0.0247	0.114	1	05/12/2021 04:15	WG1668257
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120		05/12/2021 04:15	WG1668257

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	12.4		1.84	4.56	1	05/15/2021 02:56	WG1669282
C28-C36 Motor Oil Range	28.0		0.312	4.56	1	05/15/2021 02:56	WG1669282
(S) o-Terphenyl	49.2			18.0-148		05/15/2021 02:56	WG1669282

9 Sc

Collected date/time: 05/05/21 14:45

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.9		1	05/13/2021 19:47	WG1669086

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1160		101	220	10	05/15/2021 02:37	WG1670407

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0382	B J	0.0239	0.110	1	05/12/2021 04:39	WG1668257
(S) a,a,a-Trifluorotoluene(FID)	105			77.0-120		05/12/2021 04:39	WG1668257

5 Sr

6 Qc

7 Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.77	4.40	1	05/15/2021 00:02	WG1669282
C28-C36 Motor Oil Range	1.24	J	0.302	4.40	1	05/15/2021 00:02	WG1669282
(S) o-Terphenyl	62.1			18.0-148		05/15/2021 00:02	WG1669282

8 Al

9 Sc

SB-45-3-0-15-210506

Collected date/time: 05/06/21 11:45

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.4		1	05/13/2021 19:47	WG1669086

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	41.6		9.96	21.6	1	05/15/2021 02:46	WG1670407

5 Sr

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0640	B J	0.0235	0.108	1	05/12/2021 05:03	WG1668257
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		05/12/2021 05:03	WG1668257

6 Qc

7 Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4.49		1.74	4.33	1	05/15/2021 02:16	WG1669282
C28-C36 Motor Oil Range	20.3		0.297	4.33	1	05/15/2021 02:16	WG1669282
(S) o-Terphenyl	72.1			18.0-148		05/15/2021 02:16	WG1669282

8 Al

9 Sc

Collected date/time: 05/06/21 12:06

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.3		1	05/13/2021 19:47	WG1669086

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	719		96.5	210	10	05/15/2021 03:15	WG1670407

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0265	B J	0.0228	0.105	1	05/12/2021 05:27	WG1668257
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120		05/12/2021 05:27	WG1668257

5 Sr

6 Qc

7 Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.69	4.20	1	05/15/2021 00:15	WG1669282
C28-C36 Motor Oil Range	2.22	J	0.287	4.20	1	05/15/2021 00:15	WG1669282
(S) o-Terphenyl	65.2			18.0-148		05/15/2021 00:15	WG1669282

8 Al

9 Sc

SB-40-3-0-15-210506

Collected date/time: 05/06/21 12:15

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.7		1	05/13/2021 18:11	WG1669090

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	348		10.4	22.5	1	05/15/2021 03:24	WG1670407

5 Sr

6 Qc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0478	B J	0.0245	0.113	1	05/12/2021 05:51	WG1668257
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120		05/12/2021 05:51	WG1668257

7 Gl

8 Al

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	6.23		1.82	4.51	1	05/15/2021 01:35	WG1669282
C28-C36 Motor Oil Range	21.0		0.309	4.51	1	05/15/2021 01:35	WG1669282
(S) o-Terphenyl	81.8			18.0-148		05/15/2021 01:35	WG1669282

9 Sc

Collected date/time: 05/06/21 12:30

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.0		1	05/13/2021 18:11	WG1669090

¹ Cp² Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	3610		107	233	10	05/15/2021 03:34	WG1670407

³ Ss⁴ Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0303	B J	0.0252	0.116	1	05/12/2021 06:14	WG1668257
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120		05/12/2021 06:14	WG1668257

⁵ Sr⁶ Qc⁷ Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.87	4.65	1	05/15/2021 01:09	WG1669282
C28-C36 Motor Oil Range	5.73		0.319	4.65	1	05/15/2021 01:09	WG1669282
(S) o-Terphenyl	79.1			18.0-148		05/15/2021 01:09	WG1669282

⁸ Al⁹ Sc

Collected date/time: 05/06/21 12:45

L1349835

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.6		1	05/13/2021 18:11	WG1669090

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1240		99.4	216	10	05/15/2021 03:53	WG1670407

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0243	B J	0.0234	0.108	1	05/12/2021 06:38	WG1668257
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120		05/12/2021 06:38	WG1668257

5 Sr

6 Qc

7 Gl

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.74	4.32	1	05/15/2021 00:55	WG1669282
C28-C36 Motor Oil Range	0.399	J	0.296	4.32	1	05/15/2021 00:55	WG1669282
(S) o-Terphenyl	72.7			18.0-148		05/15/2021 00:55	WG1669282

8 Al

9 Sc

Released to Imaging: 3/29/2023 10:59:17 AM

WG1668574

QUALITY CONTROL SUMMARY

Total Solids by Method 2540 G-2011

[L1349835-01,02,03,04,05,06,07,08](#)

Method Blank (MB)

(MB) R3653779-1 05/12/21 10:38

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00200			

L1349835-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1349835-01 05/12/21 10:38 • (DUP) R3653779-3 05/12/21 10:38

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	95.3	95.8	1	0.558		10

Laboratory Control Sample (LCS)

(LCS) R3653779-2 05/12/21 10:38

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Received by OCD: 11/3/2021 9:03:23 AM

1C

2T

3S

4C

5S

6Qc

7Gl

8Al

9Sc

Released to Imaging: 3/29/2023 10:59:17 AM

Total Solids by Method 2540 G-2011

L1349835-09,10,11,12,13,14

Method Blank (MB)

(MB) R3654495-1 05/13/21 11:23				
	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

L1349835-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1349835-11 05/13/21 11:23 • (DUP) R3654495-3 05/13/21 11:23						
	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	85.4	85.0	1	0.421		10

Laboratory Control Sample (LCS)

(LCS) R3654495-2 05/13/21 11:23					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	99.9	85.0-115	

Received by OCD: 11/3/2021 9:03:23 AM

1C

2T

3S

4C

5S

6Qc

7Gl

8Al

9Sc

Released to Imaging: 3/29/2023 10:59:17 AM

Total Solids by Method 2540 G-2011

[L1349835-15,16,17,18,19,20,21,22,23,24](#)

Method Blank (MB)

(MB) R3654559-1 05/13/21 19:12				
	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1349835-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1349835-19 05/13/21 19:12 • (DUP) R3654559-3 05/13/21 19:12						
	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	80.3	82.1	1	2.21		10

Laboratory Control Sample (LCS)

(LCS) R3654559-2 05/13/21 19:12					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	99.9	85.0-115	

Received by OCD: 11/3/2021 9:03:23 AM

1 C

2 T

3 S

4 C

5 S

6 Qc

7 Gl

8 Al

9 Sc

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Released to Imaging: 3/29/2023 10:59:17 AM

WG1669086

QUALITY CONTROL SUMMARY

Total Solids by Method 2540 G-2011 [L1349835-25,26,27,28,29,30,31,32,33,34](#)

Method Blank (MB)

(MB) R3654566-1 05/13/21 19:47				
	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1349835-30 Original Sample (OS) • Duplicate (DUP)

(OS) L1349835-30 05/13/21 19:47 • (DUP) R3654566-3 05/13/21 19:47						
	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	84.7	83.2	1	1.84		10

Laboratory Control Sample (LCS)

(LCS) R3654566-2 05/13/21 19:47					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Received by OCD: 11/3/2021 9:03:23 AM

1C

2T

3S

4C

5S

6Qc

7Gl

8Al

9Sc

Released to Imaging: 3/29/2023 10:59:17 AM

Total Solids by Method 2540 G-2011

[L1349835-35,36,37](#)

Method Blank (MB)

(MB) R3654554-1 05/13/21 18:11				
	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

Laboratory Control Sample (LCS)

(LCS) R3654554-2 05/13/21 18:11					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Received by OCD: 11/3/2021 9:03:23 AM

1

C

2

T

3

S

4

C

5

S

6

Qc

7

Gl

8

Al

9

Sc

Released to Imaging: 3/29/2023 10:59:17 AM

WG1669569

Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY

L1349835-01

Method Blank (MB)

(MB) R3654010-1 05/13/21 01:11				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

L1348718-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1348718-01 05/13/21 02:30 • (DUP) R3654010-3 05/13/21 02:40						
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	96.4	94.2	1	2.30		20

L1349820-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1349820-02 05/13/21 04:34 • (DUP) R3654010-6 05/13/21 04:44						
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3654010-2 05/13/21 01:21					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	188	94.2	90.0-110	

L1348718-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1348718-01 05/13/21 02:30 • (MS) R3654010-4 05/13/21 02:49 • (MSD) R3654010-5 05/13/21 02:59											
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%
Chloride	500	96.4	575	576	95.7	96.0	1	80.0-120			0.284

Received by OCD: 11/3/2021 9:03:23 AM

6 Qc

7 Gl

8 Al

9 Sc

Released to Imaging: 3/29/2023 10:59:17 AM

WG1670404

Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY

L1349835-02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18

Method Blank (MB)

(MB) R3654380-1 05/14/21 01:30				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

L1349835-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1349835-06 05/14/21 02:27 • (DUP) R3654380-3 05/14/21 02:36						
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	U	11.0	1	0.000		20

L1352208-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1352208-01 05/14/21 05:47 • (DUP) R3654380-6 05/14/21 05:56						
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3654380-2 05/14/21 01:39					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	191	95.4	90.0-110	

L1349835-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349835-18 05/14/21 05:18 • (MS) R3654380-4 05/14/21 05:28 • (MSD) R3654380-5 05/14/21 05:37												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	553	540	1410	1430	158	161	1	80.0-120	E J5	E J5	1.08	20

Received by OCD: 11/3/2021 9:03:23 AM

6 Qc

7 Gl

8 Al

9 Sc

Released to Imaging: 3/29/2023 10:59:17 AM

WG1670407

Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY

L1349835-19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37

Method Blank (MB)

(MB) R3654768-1 05/14/21 23:26				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

L1349835-26 Original Sample (OS) • Duplicate (DUP)

(OS) L1349835-26 05/15/21 01:21 • (DUP) R3654768-3 05/15/21 01:30						
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	56.6	58.7	1	3.63		20

L1349835-36 Original Sample (OS) • Duplicate (DUP)

(OS) L1349835-36 05/15/21 03:34 • (DUP) R3654768-6 05/15/21 03:43						
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	3610	3620	10	0.148		20

Laboratory Control Sample (LCS)

(LCS) R3654768-2 05/14/21 23:36					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	191	95.5	90.0-110	

L1349835-26 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349835-26 05/15/21 01:21 • (MS) R3654768-4 05/15/21 01:40 • (MSD) R3654768-5 05/15/21 01:49												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	560	56.6	605	601	98.0	97.3	1	80.0-120			0.659	20

ACCOUNT:

Arcadis - Chevron - TX

PROJECT:

30057161-0004B

SDG:

L1349835

DATE/TIME:

05/20/21 09:29

PAGE:

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WG1668042

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (GC) by Method 8015D/GRO

L1349835-01,02

Method Blank (MB)

(MB) R3652777-2 05/11/21 02:07

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	96.6			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3652777-1 05/11/21 01:23

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.32	96.7	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			113	77.0-120	

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1 C

2 T

3 S

4 C

5 S

6 Qc

7 Gl

8 Al

9 Sc

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WG1668243

Volatile Organic Compounds (GC) by Method 8015D/GRO

QUALITY CONTROL SUMMARY

L1349835-04,05,07,08,09,10,11,12,13,14,15,16

Method Blank (MB)

(MB) R3655890-3 05/11/21 20:48				
	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S)	118			77.0-120
a,a,a-Trifluorotoluene(FID)				

Laboratory Control Sample (LCS)

(LCS) R3655890-2 05/11/21 20:03					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	4.86	88.4	72.0-127	
(S)			107	77.0-120	
a,a,a-Trifluorotoluene(FID)					

L1349842-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349842-02 05/12/21 04:46 • (MS) R3655890-6 05/12/21 05:53 • (MSD) R3655890-7 05/12/21 06:32												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
TPH (GC/FID) Low Fraction	550	5900	5600	6020	0.000	21.8	100	10.0-151	<u>EV</u>	<u>E</u>	7.23	28
(S)					156	167		77.0-120	<u>J1</u>	<u>J1</u>		
a,a,a-Trifluorotoluene(FID)												

Sample Narrative:
OS: Surrogate failure due to matrix interference

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- 1C
- 2T
- 3S
- 4C
- 5S
- 6Qc
- 7Gl
- 8Al
- 9Sc

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WG1668251

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (GC) by Method 8015D/GRO

L1349835-17,23,24,25,26

Method Blank (MB)

(MB) R3653238-2 05/11/21 14:13				
	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S)	95.8			77.0-120
a,a,a-Trifluorotoluene(FID)				

Laboratory Control Sample (LCS)

(LCS) R3653238-1 05/11/21 13:29					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.61	102	72.0-127	
(S)			112	77.0-120	
a,a,a-Trifluorotoluene(FID)					

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- 1C
- 2T
- 3S
- 4C
- 5S
- 6Qc
- 7Gl
- 8Al
- 9Sc

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WG1668257

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1349835-27,28,29,30,31,32,33,34,35,36,37](#)

Method Blank (MB)

(MB) R3655501-2 05/12/21 02:01				
	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
TPH (GC/FID) Low Fraction	0.0382		0.0217	0.100
(S)	108			77.0-120
a,a,a-Trifluorotoluene(FID)				

Laboratory Control Sample (LCS)

(LCS) R3655501-1 05/12/21 01:14					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	4.87	88.5	72.0-127	
(S)			107	77.0-120	
a,a,a-Trifluorotoluene(FID)					

L1349835-29 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349835-29 05/12/21 03:28 • (MS) R3655501-3 05/12/21 10:37 • (MSD) R3655501-4 05/12/21 11:00												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
TPH (GC/FID) Low Fraction	6.03	0.0292	2.20	1.90	36.1	31.0	1	10.0-151			15.0	28
(S)												
a,a,a-Trifluorotoluene(FID)					106	105		77.0-120				

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1 C
2 T
3 S
4 C
5 S
6 Qc
7 Gl
8 Al
9 Sc
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WG1669176

Volatile Organic Compounds (GC) by Method 8015D/GRO

QUALITY CONTROL SUMMARY

L1349835-18,19,20,21,22

Method Blank (MB)

(MB) R3653589-2 05/12/21 14:49				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S)	95.9			77.0-120
a,a,a-Trifluorotoluene(FID)				

Laboratory Control Sample (LCS)

(LCS) R3653589-1 05/12/21 14:05					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.37	97.6	72.0-127	
(S)			112	77.0-120	
a,a,a-Trifluorotoluene(FID)					

L1350269-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1350269-01 05/13/21 00:32 • (MS) R3653589-3 05/13/21 01:38 • (MSD) R3653589-4 05/13/21 02:00												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg				%	%		%			%	%
TPH (GC/FID) Low Fraction	116	U	128	113	77.2	68.4	25	10.0-151			12.1	28
(S)					108	106		77.0-120				
a,a,a-Trifluorotoluene(FID)												

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- 1C
- 2T
- 3S
- 4C
- 5S
- 6Qc
- 7Gl
- 8Al
- 9Sc

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Method Blank (MB)

(MB) R3654970-2 05/13/21 04:42				
	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S)	98.2			77.0-120
a,a,a-Trifluorotoluene(FID)				

Laboratory Control Sample (LCS)

(LCS) R3654970-1 05/13/21 03:58					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.09	92.5	72.0-127	
(S)			107	77.0-120	
a,a,a-Trifluorotoluene(FID)					

Received by OGD: 11/3/2021 9:03:23 AM

1C

2T

3S

4C

5S

6Qc

7Gl

8Al

9Sc

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WG1672860

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (GC) by Method 8015D/GRO

L1349835-06

Method Blank (MB)

(MB) R3656228-4 05/18/21 15:09				
	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S)	119			77.0-120
a,a,a-Trifluorotoluene(FID)				

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

LCS) R3656228-1 05/18/21 09:31 • (LCSD) R3656228-2 05/18/21 11:38										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	4.63	5.33	84.2	96.9	72.0-127			14.1	20
(S)				105	106	77.0-120				
a,a,a-Trifluorotoluene(FID)										

Received by OGD: 11/3/2021 9:03:23 AM

1C

2T

3S

4C

5S

6Qc

7Gl

8Al

9Sc

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WG1669278

Semi-Volatile Organic Compounds (GC) by Method 8015M

QUALITY CONTROL SUMMARY

L1349835-02,03,04,05,06,07,08,09,10,12,13,14,15,16,17,18,19

Method Blank (MB)

(MB) R3654301-1 05/14/21 01:18

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	66.1			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3654301-2 05/14/21 01:31

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	40.4	80.8	50.0-150	
(S) o-Terphenyl			71.0	18.0-148	

L1349835-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349835-02 05/14/21 19:20 • (MS) R3654823-1 05/14/21 19:33 • (MSD) R3654823-2 05/14/21 19:47

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	61.4	U	36.7	25.7	59.8	42.0	1	50.0-150		J3 J6	35.2	20
(S) o-Terphenyl					50.3	29.7		18.0-148				

Received by OCD: 11/3/2021 9:03:23 AM

1C

2T

3S

4C

5S

6Qc

7Gl

8Al

9Sc

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Method Blank (MB)

(MB) R3654824-1 05/14/21 12:28				
	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	48.6			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3654824-2 05/14/21 12:41					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	32.5	65.0	50.0-150	
(S) o-Terphenyl			59.9	18.0-148	

L1349835-35 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349835-35 05/15/21 01:35 • (MS) R3654824-3 05/15/21 01:49 • (MSD) R3654824-4 05/15/21 02:02												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	54.3	6.23	34.0	40.6	51.2	63.2	1	50.0-150			17.5	20
(S) o-Terphenyl					48.8	4.78		18.0-148		J2		

Received by OCD: 11/3/2021 9:03:23 AM

1C

2T

3S

4C

5S

6Qc

7Gl

8Al

9Sc

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WG1669928

QUALITY CONTROL SUMMARY

Semi-Volatile Organic Compounds (GC) by Method 8015M

L1349835-11

Method Blank (MB)

(MB) R3654256-1 05/13/21 15:10				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	48.8			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3654256-2 05/13/21 15:24					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	29.3	58.6	50.0-150	
(S) o-Terphenyl			47.9	18.0-148	

L1349376-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349376-05 05/15/21 09:02 • (MS) R3654937-1 05/15/21 09:15 • (MSD) R3654937-2 05/15/21 09:28												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	49.7	44.6	156	117	224	145	1	50.0-150	J5	J3	28.6	20
(S) o-Terphenyl					43.8	43.7		18.0-148				

Received by OCD: 11/3/2021 9:03:23 AM

1C

2T

3S

4C

5S

6Qc

7Gl

8Al

9Sc

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WG1670824

Semi-Volatile Organic Compounds (GC) by Method 8015M

QUALITY CONTROL SUMMARY

L1349835-01

Method Blank (MB)

(MB) R3655580-1 05/17/21 12:44

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	47.7			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3655580-2 05/17/21 12:57

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	32.8	65.6	50.0-150	
(S) o-Terphenyl			126	18.0-148	

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- 1C
- 2T
- 3S
- 4C
- 5S
- 6Qc
- 7Gl
- 8Al
- 9Sc

Guide to Reading and Understanding Your Laboratory Report

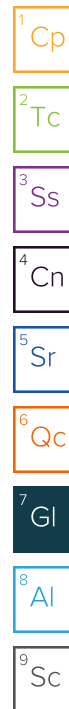
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	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
B	The same analyte is found in the associated blank.
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.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
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.



Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

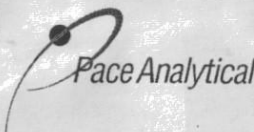
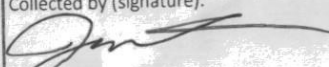
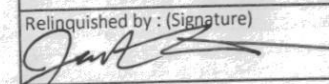
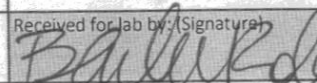
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Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina 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.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Company Name/Address: Arcadis - Chevron - TX				Billing Information: Attn: Accounts Payable 630 Plaza Drive, Suite 600 Highlands Ranch, CO 80129				Analysis / Container / Preservative				Chain of Custody Page 1 of 4	
1717 W 6th St. Suite 210 Austin, TX 78703				Email To: douglas.jordan@arcadis.com;environmentDM-				Pres Chk				 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf	
Report to: Morgan Jordan				City/State Collected:				Please Circle: PT MT CT ET					
Project Description: VG CB				Client Project # 30057161-0004B				Lab Project # CHEVARCA-VG CB					
Phone: 512-451-1188				Site/Facility ID # VG CB				P.O. #					
Collected by (print): Justin Steinmann				Rush? (Lab MUST Be Notified) Same Day _____ Five Day _____ Next Day _____ 5 Day (Rad Only) _____ Two Day _____ 10 Day (Rad Only) _____ Three Day _____				Quote #					
Collected by (signature): 				Date Results Needed				No. of Cntrs					
Immediately Packed on Ice N _____ Y ☒													
Sample ID				Comp/Grab		Matrix *		Depth		Date		Time	
✓ SB-39-S-1.25-1.5-210505				G		SS		1.25-1.5		5/05/21		1130	
✓ SB-38-S-0-.5-210505				G		SS		0-.5		5/05/21		1145	
✓ SB-38-S-1.5-1.75-210505				G		SS		1.5-1.75		5/05/21		1200	
✓ SB-40-S-0-.5-210505				G		SS		0-.5		5/05/21		1304	
✓ SB-40-S-1.5-1.75-210505				G		SS		1.5-1.75		5/05/21		1315	
✓ SB-41-S-0-.5-210505				G		SS		0-.5		5/05/21		1335	
✓ SB-41-S-0-.5-210505				G		SS		0-.5		5/05/21		1345	
✓ SB-41-S-1-1.5-210505				G		SS		1-1.5		5/05/21		1345	
✓ SB-24-S-1-1.5-210505				G		SS		1-1.5		5/05/21		1420	
✓ SB-42-S-0-.5-210505				G		SS		0-.5		5/05/21		1430	
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____				Remarks:				pH _____ Temp _____ Flow _____ Other _____					
Samples returned via: UPS _____ FedEx _____ Courier _____				Tracking #									
Relinquished by: (Signature) 				Date: 5/06/21		Time: 1630		Received by: (Signature) 				Trip Blank Received: Yes / No HCL / MeOH TBR	
Relinquished by: (Signature)				Date:		Time:		Received by: (Signature)				Temp: 37.3 °C Bottles Received: 37	
Relinquished by: (Signature)				Date:		Time:		Received for lab by: (Signature) 				Date: 5/7/21 Time: 1200	
												Hold: Condition: NCF ☒ OK	

SDG # 1349835

Table G055

Acctnum: CHEVARCA

Template: T182859

Prelogin: P845467

PM: 526 - Chris McCord

PB:

Shipped Via:

Remarks

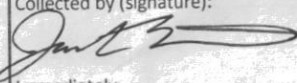
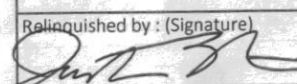
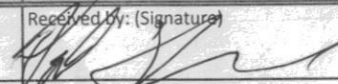
Sample # (lab only)

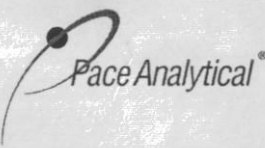
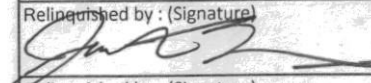
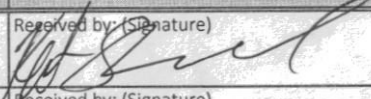
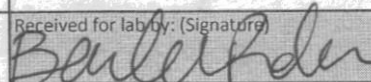
01
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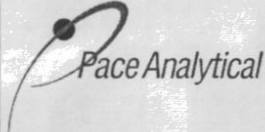
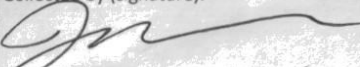
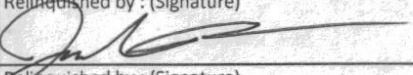
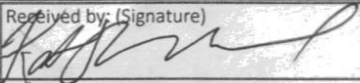
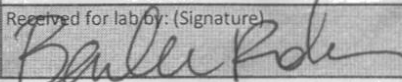
Sample Receipt Checklist

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
 RAD Screen <0.5 mR/hr: ☒ Y ☐ N

If preservation required by Login: Date/Time

Company Name/Address: Arcadis - Chevron - TX		Billing Information: Attn: Accounts Payable 630 Plaza Drive, Suite 600 Highlands Ranch, CO 80129		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 44 of 44	
1717 W 6th St. Suite 210 Austin, TX 78703		Report to: Morgan Jordan		Email To: douglas.jordan@arcadis.com;environmentDM-		 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf SDG # L1349835 Table # Acctnum: CHEVARCA Template: T182859 Prelogin: P845467 PM: 526 - Chris McCord PB: Shipped Via: Remarks Sample # (lab only)											
Project Description: VG CB		City/State Collected:		Please Circle: PT MT CT ET													
Phone: 512-451-1188		Client Project # 30057161-0004B		Lab Project # CHEVARCA-VG CB													
Collected by (print): Justin Stemmann		Site/Facility ID # VG CB		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 Cnts											
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time											
✓ SB-32-S-0-5-210504	G	SS	0-5	5/04/21	1430	1	X										
✓ SB-32-S-1.5-2-210504		SS	1.5-2	5/04/21	1445	1	X										
✓ SB-32-S-3.5-4-210504		SS	3.5-4	5/04/21	1500	1	X										
✓ SB-32-S-5.5-6-210504		SS	5.5-6	5/04/21	1527	1	X										
✓ SB-33-S-0-5-210505		SS	0-5	5/05/21	0941	1	X										
✓ SB-33-S-1.5-2-210505		SS	1.5-2	5/05/21	0950	1	X										
5/05/21 ✓ SB-37-S-0-5-210505		SS	0-5	5/05/21	1015	1	X										
✓ SB-37-S-1.5-2-210505		SS	1.5-2	5/05/21	1026	1	X										
✓ SB-27-S-1.5-2-210505		SS	1.5-2	5/05/21	1110	1	X										
✓ SB-39-S-0-5-210505		SS	0-5	5/05/21	1122	1	X										
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks:		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 RAD Screen <0.5 mR/hr: ☒ Y ☐ N									
Samples returned via: ___ UPS ___ FedEx ___ Courier		Tracking #															
Relinquished by: (Signature) 		Date: 5/06/21		Time: 1630		Received by: (Signature) 		Trip Blank Received: Yes ☒ No ☐ HCL/MeOH TBR		Bottles Received: 37		If preservation required by Login: Date/Time					
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: 3.2 ± 0.1 = 3.3 °C									
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature)		Date: 5/7/21		Time: 1200		Hold: ☐ Condition: ☒ OK					

Company Name/Address: Arcadis - Chevron - TX				Billing Information: Attn: Accounts Payable 630 Plaza Drive, Suite 600 Highlands Ranch, CO 80129				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page <u>3</u> of <u>4</u>			
1717 W 6th St. Suite 210 Austin, TX 78703				Email To: douglas.jordan@arcadis.com;environmentDM-																 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf			
Report to: Morgan Jordan				Project Description: VG CB				City/State Collected:		Please Circle: PT MT CT ET													
Phone: 512-451-1188				Client Project # 30057161-0004B				Lab Project # CHEVARCA-VG CB												SDG # L1349834			
Collected by (print): Justin Skinmann				Site/Facility ID # VG CB				P.O. #												Table #			
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 #												Acctnum: CHEVARCA			
Immediately Packed on Ice N _____ Y ☒				Date Results Needed				No. of Cntrs												Template: T182859			
Sample ID				Comp/Grab		Matrix *		Depth		Date		Time						Prelogin: P845467					
																		PM: 526 - Chris McCord					
																		PB:					
																		Shipped Via:					
																		Remarks					
																		Sample # (lab only)					
✓ SB-36-S-0-5-210504				G		SS		0-5		5/04/21		1101		1		X		-21					
✓ SB-36-S-1.5-2-210504				G		SS		1.5-2		5/04/21		1130		1		X		22					
✓ SB-26-S-1-1.5-210504				G		SS		1-1.5		5/04/21		1200		1		X		23					
✓ SB-35-S-0-5-210504				G		SS		0-5		5/04/21		1205		1		X		24					
✓ SB-35-S-1-1.5-210504				G		SS		1-1.5		5/4/21		1215		1		X		25					
✓ SB-34-S-0-5-210504				G		SS		0-5		5/4/21		1230		1		X		26					
✓ SB-34-S-1-1.25-210504				G		SS		1-1.25		5/4/21		1245		1		X		27					
✓ SB-31-S-0-5-210504				G		SS		0-5		5/4/21		1335		1		X		28					
✓ SB-31-S-1.5-2-210504				G		SS		1.5-2		5/4/21		1345		1		X		29					
✓ SB-28-S-1.5-2-210504				G		SS		1.5-2		5/4/21		1410		1		X		30					
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____				Remarks:				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 RAD Screen <0.5 mR/hr: ☒ Y ☐ N							
Samples returned via: _____				Tracking #																			
Relinquished by: (Signature) 				Date: 5/06/21				Time: 1630				Received by: (Signature) 				Trip Blank Received: Yes ☐ No ☒ HCL / MeOH TBR							
Relinquished by: (Signature)				Date:				Time:				Received by: (Signature)				Temp: 3.2+/-3.3 Bottles Received: 37 If preservation required by Login: Date/Time							
Relinquished by: (Signature)				Date:				Time:				Received for lab by: (Signature) 				Date: 5/7/21 Time: 1200 Hold: Condition: NCF / OK ☒							

Company Name/Address: Arcadis - Chevron - TX 1717 W 6th St. Suite 210 Austin, TX 78703		Billing Information: Attn: Accounts Payable 630 Plaza Drive, Suite 600 Highlands Ranch, CO 80129		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page <u>2</u> of <u>4</u>					
Report to: Morgan Jordan		Email To: douglas.jordan@arcadis.com;environmentDM-														 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf					
Project Description: VG CB		City/State Collected:		Please Circle: PT MT CT ET												SDG # <u>L134983</u> Table # Acctnum: CHEVARCA Template: T182859 Prelogin: P845467 PM: 526 - Chris McCord PB: Shipped Via:					
Phone: 512-451-1188		Client Project # 30057161-0004B		Lab Project # CHEVARCA-VG CB																	
Collected by (print): Justin Steinmann		Site/Facility ID # VG CB		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																
✓ SB-42-S-0-5-210506	G	SS	0-5	5/05/21		1	X											31			
SB-42-S-1.5-1.75-210506	G	SS	1.5-1.75	5/05/21	1445	1	X											32			
SB-44-S-0-5-210506	G	SS	0-5	5/06/21	0955	1	X											9/5			
SB-44-S-1.5-2-210506	G	SS	1.5-2	5/06/21	1010	1	X											5/06/21			
SB-43-S-0-5-210506	G	SS	0-5	5/06/21	1050	1	X											9/5 5/06/21			
✓ SB-45-S-0-5-210506	G	SS	0-5	5/06/21	1145	1	X											33			
✓ SB-45-S-1.5-1.75-210506	G	SS	1.5-1.75	5/06/21	1206	1	X											34			
✓ SB-46-S-0-5-210506	G	SS	0-5	5/06/21	1215	1	X											35			
✓ SB-46-S-1.5-2-210506	G	SS	1.5-2	5/06/21	1230	1	X											36			
✓ SB-46-S-2.5-2.75-210506	G	SS	2.5-2.75	5/06/21	1245	1	X											37			
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks:		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 RAD Screen <0.5 mR/hr: ☒ Y ☐ N													
Samples returned via: ☐ UPS ☐ FedEx ☐ Courier		Tracking #																			
Relinquished by: (Signature) 		Date: 5/06/21		Time: 1630		Received by: (Signature) 		Trip Blank Received: Yes (No) HCLy MeOH TBR													
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: <u>43 BPC</u> 3.2 ± 1 = 3.3		Bottles Received: <u>37</u>		If preservation required by Login: Date/Time									
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature) 		Date: 5/7/21		Time: 1200		Hold: Condition: NCF / OK									

Appendix E

Revised C-141 Form

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nGRL1027259693
District RP	1RP-2622
Facility ID	NA
Application ID	NA

Release Notification

Responsible Party

Responsible Party: Chevron USA	OGRID: NA
Contact Name: Armando Martinez	Contact Telephone: 505-690-5408
Contact email: amarti@chevron.com	Incident # (assigned by OCD) nGRL1027259693
Contact mailing address:	

Location of Release Source

Latitude 32.79583 _____ Longitude -103.51460 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Vacuum Glorieta Central Battery	Site Type: Production and Injection Battery
Date Release Discovered: 06/13/2010	API# (if applicable): 30-025-30716

Unit Letter	Section	Township	Range	County
B	36	17S	34E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls):	Volume Recovered (bbls):
☒ Produced Water	Volume Released (bbls): 264	Volume Recovered (bbls): 180
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: A leak in a 10-inch diameter buried steel produced water transfer line located between the transfer pumps and the horizontal injection pump.

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	nGRL1027259693
District RP	1RP-2622
Facility ID	NA
Application ID	NA

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Release was greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Initial C-141 Form was submitted on June 22, 2010.	

Incident ID	nGRL1027259693
District RP	1RP-2622
Facility ID	NA
Application ID	NA

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>105</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. **Attached.**
Field data: **Attached.**
Data table of soil contaminant concentration data: **Attached.**
Depth to water determination: **Greater than 100 ft bgs.**
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release: **None identified.**
Boring or excavation logs: **Attached**
Photographs including date and GIS information: **Photographic log attached.**
Topographic/Aerial maps; **Topographic map attached.**
Laboratory data including chain of custody: **Attached.**

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	nGRL1027259693
District RP	1RP-2622
Facility ID	NA
Application ID	NA

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Armando Martinez Title: Environmental Project Manager

Signature:  _____ Date: 10/20/21 _____

email: amarti@chevron.com Telephone: 505-690-
5408 _____

OCD Only

Received by: _____ Date: _____

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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

Requesting deferral of additional assessment activities associated with 1RP-2622 within the bermed area of the VGWU Production Battery and the injection facility (VGWU Sat 1). The facility is currently active with numerous above and below ground utilities.

Additional assessment will be conducted south of the facility.

- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name: Armando Martinez _____ Title: _____ Operation Lead Central

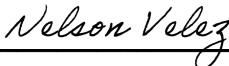
Signature:  _____ Date: 10/20/21 _____

email: amarti@chevron.com _____ Telephone: _____ (505) 690 5408 _____

OCD Only

Received by: _____ Date: _____

- ☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved
(see text box on next page for Conditions)

Signature:  _____ Date: 03/29/2023 _____

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Facility ID	NA
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1. Deferral granted for on pad areas (SB-1 through SB-23) exceeding reclamation standards for chloride (600 mg/Kg) and Total Petroleum Hydrocarbons [TPH] (100 mg/Kg) per 19.15.29.13D (1) and document provided in OCD's web site titled "Procedures for implementation of the spill rule: September 6, 2019" which explains the following; "uncontaminated" means soils not only with a chloride concentration of less than 600 mg/kg, but also a TPH concentration of no more than 100 mg/kg, a total BTEX concentration of no more than 50 mg/kg, and a benzene concentration of no more than 10 mg/kg.
2. Area with SB-24 through SB-46 considered off pad must be remediated per reclamation standards noted above except for SB-31, SB-33, SB-37 which were less than the reclamation standards for chloride and TPH.
3. Horizontal delineation required west of SB-42, SB-24, SB-41, SB-25, SB-46, & SB-45.
4. Horizontal extent required south, southeast, and east of SB-45.
5. Horizontal delineation required east of SB-32, SB-30, & SB-29.
6. OCD will allow termination of any future BTEX lab analysis toward the remediation of the off pad area.
7. OCD requires a remediation plan for the off pad area be submitted by May 1, 2023.
8. OCD requires final closure report/remediation due by June 30, 2023.

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District IV

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 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 59794

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 59794
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvez	1. Deferral granted for on pad areas (SB-1 through SB-23) exceeding reclamation standards for chloride (600 mg/Kg) and Total Petroleum Hydrocarbons [TPH] (100 mg/Kg) per 19.15.29.13D (1) and document provided in OCD's web site titled "Procedures for implementation of the spill rule: September 6, 2019" which explains the following: "uncontaminated" means soils not only with a chloride concentration of less than 600 mg/kg, but also a TPH concentration of no more than 100 mg/kg, a total BTEX concentration of no more than 50 mg/kg, and a benzene concentration of no more than 10 mg/kg. 2. Area with SB-24 through SB-46 considered off pad must be remediated per reclamation standards noted above except for SB-31, SB-33, SB-37 which were less than the reclamation standards for chloride and TPH. 3. Horizontal delineation required west of SB-42, SB-24, SB-41, SB-25, SB-46, SB-45; south, southeast, east of SB-45.; and east of SB-32, SB-30, SB-29.	3/29/2023
nvez	4. OCD will allow termination of any future BTEX lab analysis toward the remediation of the off pad area. 5. OCD requires a remediation plan for the off pad area be submitted by May 1, 2023. 6. OCD requires final closure report/remediation due by June 30, 2023.	3/29/2023