2135 S. Loop 250 W,
Midland, Texas 79703
United States
www.ghd.com

Our ref: 11220747

February 21, 2022

New Mexico Oil Conservation Division
District 1
1625 N. French Drive
Hobbs, New Mexico 88240

Re: Site Characterization and Remediation Work Plan
Flamenco Federal #1 Release Site
EOG Resources Inc.
RP #s: 1RP-2281, 1 RP-2784, 1RP-2790, 1RP-4800 and 1RP-4801
L-7-22S-32E, Lea County, New Mexico

To Whom It May Concern:

1. Introduction

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG), submits this Site Characterization and Remediation Work Plan to the New Mexico Oil Conservation Division (NMOCD) District 1 Office. This Report provides documentation of delineation, sampling, and analyses in the affected area at the EOG Flamenco Federal #1 Release Site (Site). The Site is located in Unit Letter L Section 07 of Township 22 South and Range 32 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.40333 N latitude and 103.72034 W longitude. The release occurred on is managed by the Bureau of Land Management (BLM). Figure 1 depicts the Site location. The EOG production facility and other site details are depicted on Figures 2 through 8. Groundwater conditions at the Site are fully presented under separate cover to the NMOCD in a February 9, 2022, GHD document "*Groundwater Closure Request Report, Flamenco Federal #1 Release Site*".

2. Background Information

2.1 Tin Horn Area Releases

- **1RP-2784** – The C-141 stated the release was due to a water line connection failure within the tin horn. The release occurred on July 12, 2011 and resulted in 150 barrels of produced water being released. A vacuum truck was call and approximately 100 barrels of produced water was recovered. Yates Petroleum Corporation (Yates), the operator at the time, submitted an initial C-141 to the NMOCD on July 22, 2011.
- **1RP-2790** – According to the initial C-141 the release was caused by a water line connection within the tin horn failing. The release occurred on October 21, 2011 and resulted in 275 barrels of produced

water being released. Approximately 260 barrels of produced water was recovered with the utilization of a vacuum truck. Yates submitted an initial C-141 to the NMOCD on November 2, 2011.

- **1RP-4800** – The initial C-141 stated the release was due to a failure of the water line connection at the tin horn. The release resulted in the release of 200 barrels of produced water and occurred on June 12, 2013. Nothing was recovered. An initial C-141 was prepared and submitted to the NMOCD on January 31, 2014.
- **1RP-4801** – According to the initial C-141 the release was due to a water line connection failure at the tin horn. The release occurred on August 4, 2013. The connection failure resulted in the release of 600 barrels of produced water with none being recovered. Yeats prepared and submitted an initial C-141 to the NMOCD on January 31, 2014.

The initial C-141s are provided as Attachment A.

During 2017 GHD oversaw the installation of twenty-seven (27) test pits in the area of the tin horn releases. The test pits were installed to depths ranging from ten (10) to twelve (12) feet below ground surface (bgs). Soil samples were collected from depths ranging from two (2) feet to twelve (12) feet bgs and were field screened for chloride concentrations. Additionally, two (2) soil borings SB-2 and SB-3 were installed from depths ranging from thirty (30) feet to fifty (50) feet bgs. Select soil samples were submitted to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico were analyzed for chloride by EPA Method 300. Chloride concentrations ranged from non-detect to 9,000 mg/kg in TP-11 at ten (10) feet. Two samples, TP-5 at 10' and TP-8 at ten for were also analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8021B and total petroleum hydrocarbons (TPH) by Method 8015B Modified. The two (2) soil samples had BTEX and TPH concentration below the laboratory reporting limits. Many of the test pit locations were not fully delineated based on the groundwater information available at the time. Test pit and soil boring locations are depicted on Figure 2, Tin Horn Area Assessment Concentration Map Prior to 2021.

Test pit and soil boring locations along with analytical results from this earlier assessment are presented on Figure 2, Tin Horn Area Assessment Concentration Map Prior to 2021, Figure 4, Battery Area Assessment Concentration Map Prior to 2021, and On Table 1, Summary of Soil Analytical Data.

2.2 Battery Area Release

- **1RP-2281** – According to the initial C-141, lightning struck a 750 barrels fiberglass gun barrel tank which caused a release and fire to occur. Four other tanks that were on location were also destroyed. The fire department was called, and the main water line was shut in. Approximately 100 barrels of oil and 600 barrels of produced water were released with none being recovered. The release occurred on August 11, 2009. The C-141 also stated the fluids broke through the battery berm and released to the west of the battery, off pad. The tank battery at the time was located at the west end of the battery pad and was rebuilt on east end of the battery. Yates submitted an initial C-141 on August 20, 2009.

The initial C-141 for this release is provided as Attachment A.

During 2017 GHD oversaw the installation of sixty-three (63) test pits in the area of the battery area release. The test pits were installed to depths ranging from ten (10) to twenty (20) bgs. Soil samples were collected from depths ranging from two (2) feet to twenty (20) feet bgs and were field screened for chloride concentrations. Additionally, two (2) bore holes BH-40 and BH-41 were installed from depths ranging from twenty-seven to

thirty (30) feet bgs. Select soil samples were submitted to HEAL in Albuquerque, New Mexico were analyzed for chloride by EPA Method 300. Chloride concentrations ranged from non-detect to 13,000 mg/kg in TP-59 at ten (10) feet. Many of the test pit locations were not fully delineated based on the groundwater information available at the time. Test pit and bore hole locations are depicted on Figure 4, Battery Area Assessment Concentration Map Prior to 2021.

Ten (10) soil borings were completed at the Site during 2018 in order to assess the vertical and horizontal extent of the chloride contaminated soil. Depths of the soil borings ranged from 25 to 65 ft bgs. A hard caliche layer was encountered in soil boring MW-5 at 25 ft bgs and it was terminated. Soil borings that did not encounter water were grouted. In five soil borings where perched produced water was encountered, a monitor well was installed. Monitor wells MW-1, MW-2 and MW-3 were installed in January 2018 by White Drilling Company, Inc. of Clyde, Texas and monitor wells MW-8 and MW-9 were installed in August 2018 by Authentic Drilling, Inc. of Castle Rock, Colorado. All borings were advanced utilizing an air rotary drill rig. Monitor well locations can be found on Figure 6, Surrounding Area Soil Boring Concentrations Map. Select soil samples were collected and submitted to HEAL in Albuquerque, New Mexico were analyzed for chloride by EPA Method 300. Chloride concentrations ranged from non-detect to 2,200 mg/kg in MW-1 at forty (40') bgs.

3. Groundwater and Site Characterization

GHD characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

On August 3 and August 5, 2021, Cascade drilling installed two depth to water soil borings, MW-10 and MW-11, respectively. The GPS coordinates for MW-10 are 32.404213 -103.719722 and MW-11 are 32.402393 -103.723122. MW-10 was gauged on August 8, 2021, and MW-11 was gauged on August 9, 2021, with an interface probe to determine the presence or absence of groundwater, no water was detected in either of the borings. The total depth was measured as 104.60 feet in MW-10 and 104.60 feet in MW-11, both borings were subsequently plugged. Depth to groundwater for this site is greater than one hundred (100) feet bgs. A more detailed assessment of groundwater conditions has been submitted to the NMOCD under separate cover in a February 9, 2022, GHD document "*Groundwater Closure Request Report, Flamenco Federal #1 Release Site*". No receptors (water wells, significant watercourses, playas, wetlands, lakebeds or ordinance boundaries) were located within each specific boundaries or distance from the Site. According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i) the site is located within an area with depth to groundwater greater than one hundred (100) feet bgs and meets the closure criteria for depth to groundwater greater than one hundred (100) feet in Table 1 in NMAC 19.15.29.12 (Table 1). The Site characterization documentation (Boring logs for MW-10 and MW-11, Karst Potential, FEMA, Points of Diversion and Wetlands maps) are provided in Attachment B, Site Characterization Documentation. The soil boring logs and plugging reports are provided in Attachment C, GHD and Cascade Drilling Soil Boring Logs. The soil and closure criteria are listed below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft.)
Low Karst Area, No receptors found within Boundaries	>100 feet

Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12)

Constituent	Limits
Chloride	20,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
Benzene	10 mg/kg
BTEX	50 mg/kg

4. 2021 Delineation Assessment Summary and Findings

From July 25, 2021 to August 18, 2021, GHD Services Inc. (GHD) and Cascade Drilling (Cascade) installed thirty-eight (38) soil borings, SB-12 through SB-44, SB-21A, SB-21B, SB-21C, SB-27A, and SB-40A, within the suspected impacted Tin Horn and Tank Battery areas that were not fully delineated during the test pit assessments. Un-delineated test pits are depicted on Figure 4, Battery Area Assessment Concentration Map Prior to 2021, in blue. The soil borings were installed to depths ranging from fifteen (15) feet to eighty (80) feet bgs. Soil samples were collected every five feet and field screen for hydrocarbons utilizing a photoionization detector (PID) and chlorides utilizing Hach chloride strips. Select soil samples were submitted to Eurofins Xenco Environment testing in Carlsbad, New Mexico for analysis of BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300.

During the test pit assessments there were some test pits installed within an area believed to be the reserve pit from drilling operations. No soil borings were installed within this area as not to disturb the reserve pit. Further investigation within this area was not warranted as the reserve pit was closed under previous rules. The reserve pit location is depicted on Figure 4, Figure 5 and Figure 8.

Analytical results for the 2021 soil boring assessment indicated benzene, BTEX, TPH and chloride concentrations were below the Table 1 closure criteria for groundwater greater than one hundred (100) feet. The soil boring assessment was effective in site delineation of soil impacts. However, soil borings SB-12, SB-14, SB-15, SB-43, SB-21A, SB-35 and SB-37 exhibited chloride concentrations above NMAC 19.15.29.13, surface to four (4) feet below grade surface.

Figure 3, Tin Horn Area 2021 Soil Boring Concentration Map, and Figure 5, Battery Area 2021 Soil Boring Concentration Map, depict the locations of the soil borings and analytical concentrations. Analytical results are also provided in Table 1, Summary of Soil Analytical Data, and in the Laboratory Analytical Reports provided in Attachment E. GHD and Cascade Drilling Soil Boring Logs are provided as Attachment C. New Mexico State of Engineers Well Permits and BLM Sundry Notice are provided as Attachment D.

5. nAPP2115335335 Proposed Work Plan

5.1 Tin Horn Area Releases

Analytical results from the test pit assessments and the 2021 delineation assessment indicated benzene, BTEX, TPH and chloride concentrations were below the Table 1 closure criteria for groundwater greater

than one hundred (100) feet. However, test pits TP-3, TP-5, TP-7, TP-11 and TP-12 and soil borings SB-12, SB-14, SB-15, and SB-43 exhibited chloride concentrations above NMAC 19.15.29.13, in the surface to four (4) feet below grade interval. The impacted area represented by these test pits and soil borings will be excavated to four (4) feet below surface. The proposed excavation area (Excavation Area 1) is displayed on Figure 7, Tin Horn Area Proposed Excavation Area.

If sidewall samples along the west wall and fence line of the excavation in the Tin Horn Area exhibit benzene, BTEX, TPH and/or chloride concentrations above NMAC 19.15.29.13, in the surface to four (4) feet below grade interval, a deferral will be requested for any impacts west of the fence line due to the close proximity to Campbell Road. Campbell Road is a paved, high traffic roadway. MW-11 was installed west of Campbell Road and didn't exhibit benzene, BTEX, TPH or chloride concentration above NMAC 19.15.29.13 and therefore, delineated impacts in that direction.

5.2 Battery Area Release

Analytical results from the test pit assessments and the 2021 delineation assessment indicated benzene, BTEX, TPH and chloride concentrations were below the Table 1 closure criteria for groundwater greater than one hundred (100) feet. However, test pit TP-24 and soil borings SB-35 and SB-37 exhibited chloride concentrations above NMAC 19.15.29.13, in the surface to four (4) feet below grade interval (Excavation Area 2). The area represented by soil borings SB-35 and SB-37 will be excavated to four (4) feet below surface. A second area around SB-21A, also exhibited chloride concentrations above regulatory levels in the surface to 4' bgs interval. This smaller area (Excavation Area 3) will be excavated to four feet below grade surface. The proposed excavation areas are displayed on Figure 8, Battery Area Proposed Excavation Area.

There is one test pit, TP-24, which exhibited chloride concentrations above NMAC 19.15.29.13, in the surface to four (4) feet below grade interval, however the area will not be excavated because it is located within the suspected reserve pit. Excavation within this area is not warranted as the reserve pit was closed under previous rules and the area should not be disturbed. The reserve pit location is depicted on Figure 4, Figure 5 and Figure 8.

Composite confirmation samples will be collected from the sidewalls of the excavation from areas representing areas no larger than two hundred (200) square feet. Discrete soil samples will be collected from the sidewalls of the excavation if any staining is observed. No confirmation samples will be collected from the bottom of the excavation due to the extensive delineation activities already conducted and the site being fully delineated. Additionally, there weren't any samples at the site the exhibited benzene, BTEX, TPH or chloride concentration exceedances of 10 mg/Kg, 50 mg/Kg, 1,000 mg/Kg (GRO & DRO), 2,500 mg/Kg (GRO, DRO & MRO) or 20,000 mg/Kg, respectively. All confirmation samples will be taken to a certified laboratory and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Sidewall samples in the first four feet will meet Table 1 closure criteria for groundwater less than fifty (50) feet.

Excavated soils will be transported to a NMOCD approved disposal facility for disposal. The anticipated volume of soil to be disposed of from the Tin Horn Area (Excavation Area 1) is approximately 1,605 cubic yards. Then anticipated volume of soil to be disposed of from the Battery Area (Excavation Area 2 and 3) is approximately 2,497 cubic yards. The excavation will be backfilled with non-impacted soil transported to the site. The remediation will be performed within 180 days after the work plan has been approved.

If you have any questions or comments concerning this Site Characterization and Remediation Work Plan, please do not hesitate to contact our Midland office at (432) 686-0086.

Sincerely,

GHD

Becky Haskell
Senior Project Manager

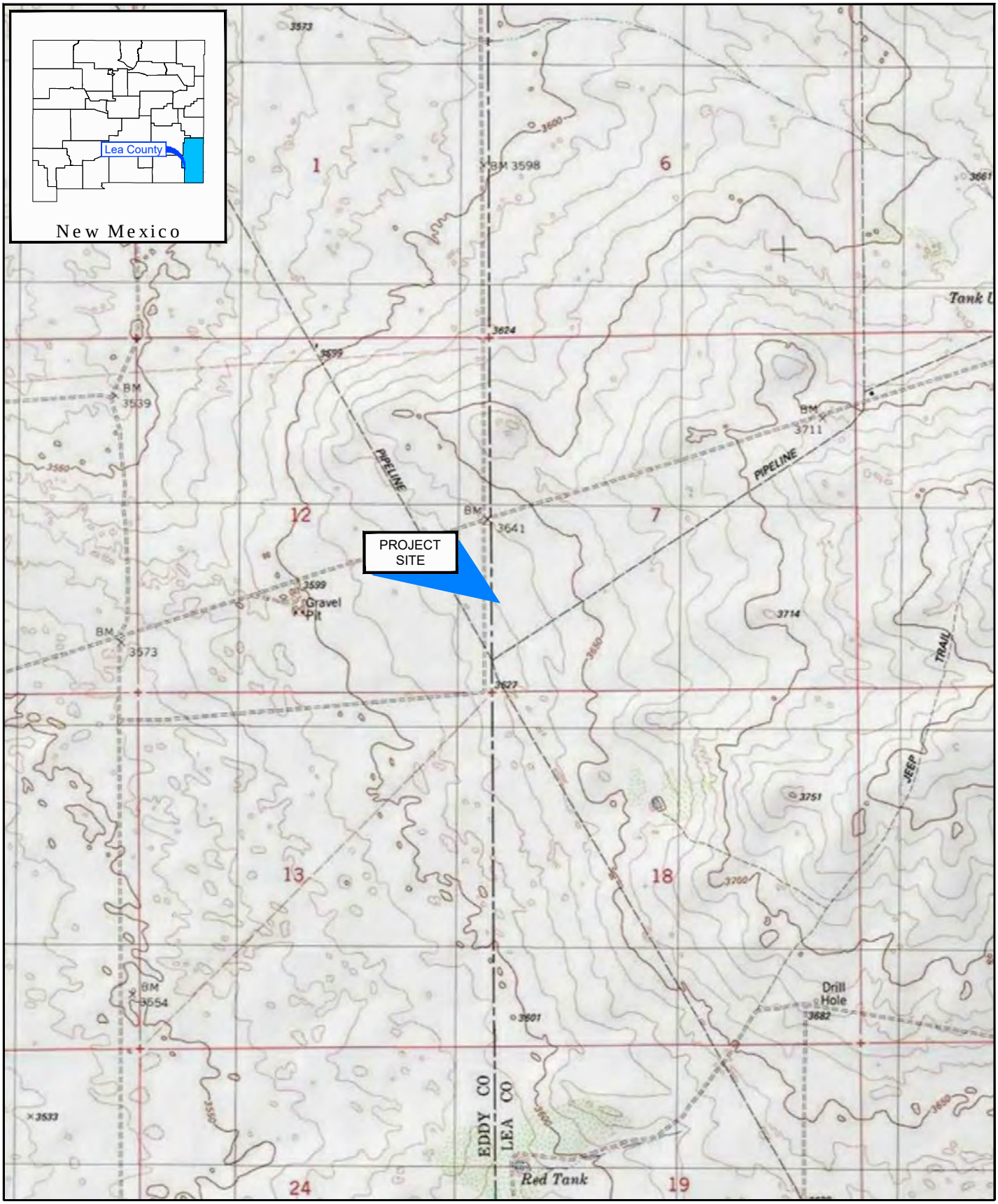
Tom Larson
Project Director

BH/TL/1

Encl. Figure 1 – Site Location Map
Figure 2 – Tin Horn Areas Assessment Concentration Map Prior to 2021
Figure 3 – Tin Horn Area 2021 Soil Boring Concentration Map
Figure 4 – Battery Area Assessment Concentration Map Prior to 2021
Figure 5 – Battery Area 2021 Soil Boring Concentration Map
Figure 6 – Surrounding Area Soil Boring Concentration Map
Figure 7 – Tin Horn Area Proposed Excavation Area
Figure 8 – Battery Area Proposed Excavation Area
Table 1 – Summary of Soil Analytical Data
Attachment A – Initial C-141s for 1RP-2281, 1RP-2784, 1RP-2790, 1RP-4800 & 1RP-4801
Attachment B – Site Characterization Documentation
Attachment C – GHD and Cascade Drilling Soil Boring Logs
Attachment D – NMSOE Well Permits and BLM Sundry Notice
Attachment E – Laboratory Analytical Reports and Chain-of-Custody Documentation

cc: James Kennedy

Figures



Source: USGS 7.5 Minute Quad "The Divide and Livingston Ridge, New Mexico"

Lat/Long: 32.402374° North, 103.722648° West

0 1000 2000ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

EOG RESOURCES
LEA COUNTY, NEW MEXICO
FLAMENCO FEDERAL No.1

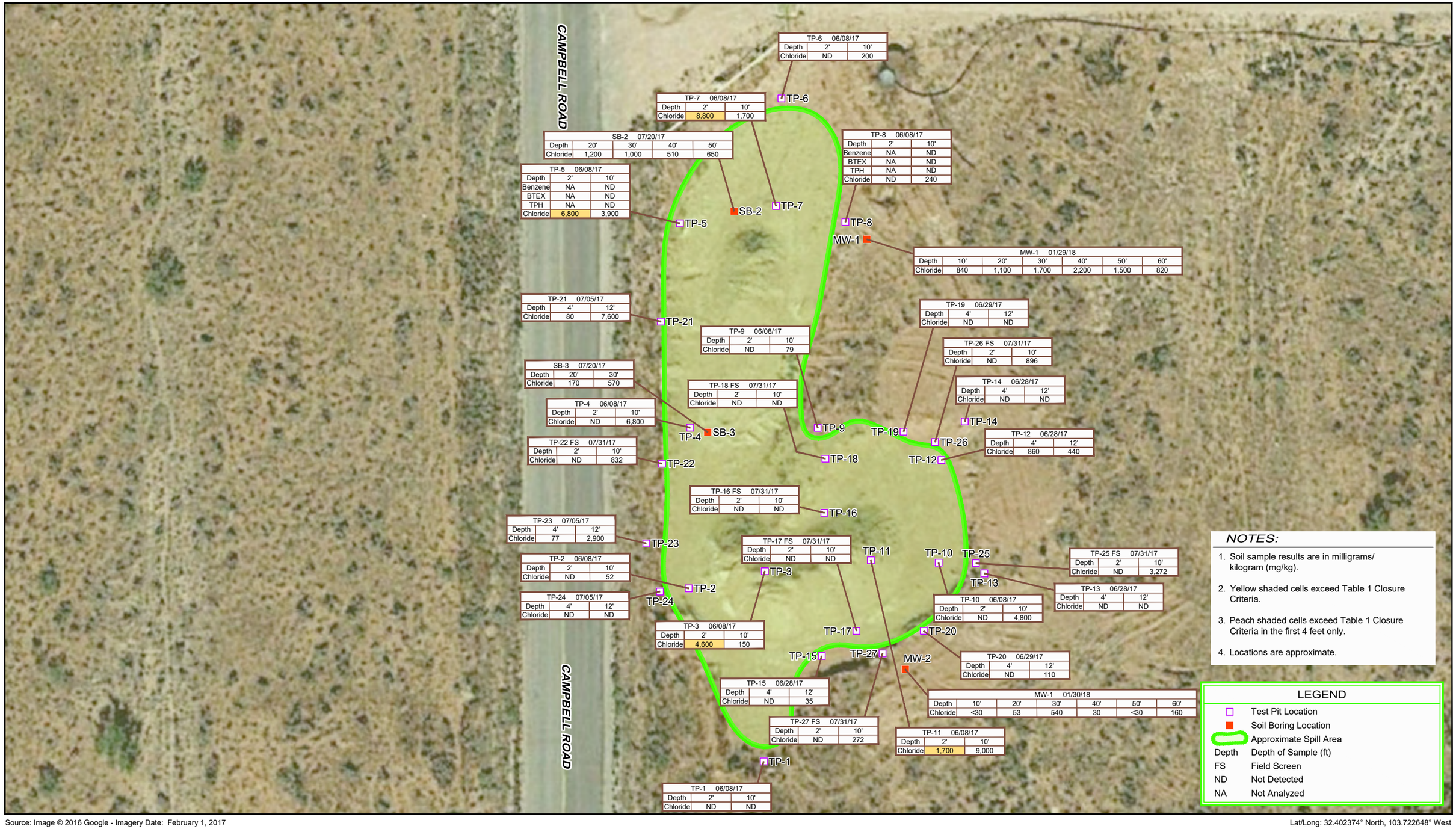
11220747

Jan 19, 2022

SITE LOCATION MAP

FIGURE 1

CAD File: \\ghdnet\ghd\US\Midland\Projects\562\11220747\Digital_Design\ACAD 2018\Figures\RPT002\11220747-GHD-0000-RPT-EN-0101_DL-002.dwg



NOTES:

1. Soil sample results are in milligrams/ kilogram (mg/kg).
2. Yellow shaded cells exceed Table 1 Closure Criteria.
3. Peach shaded cells exceed Table 1 Closure Criteria in the first 4 feet only.
4. Locations are approximate.

LEGEND

	Test Pit Location
	Soil Boring Location
	Approximate Spill Area
Depth	Depth of Sample (ft)
FS	Field Screen
ND	Not Detected
NA	Not Analyzed

Source: Image © 2016 Google - Imagery Date: February 1, 2017

Lat/Long: 32.402374° North, 103.722648° West

0 15 30ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

GHD

EOG RESOURCES
LEA COUNTY, NEW MEXICO
FLAMENCO FEDERAL No.1

TIN HORN AREA ASSESSMENT
CONCENTRATION MAP PRIOR TO 2021

11220747

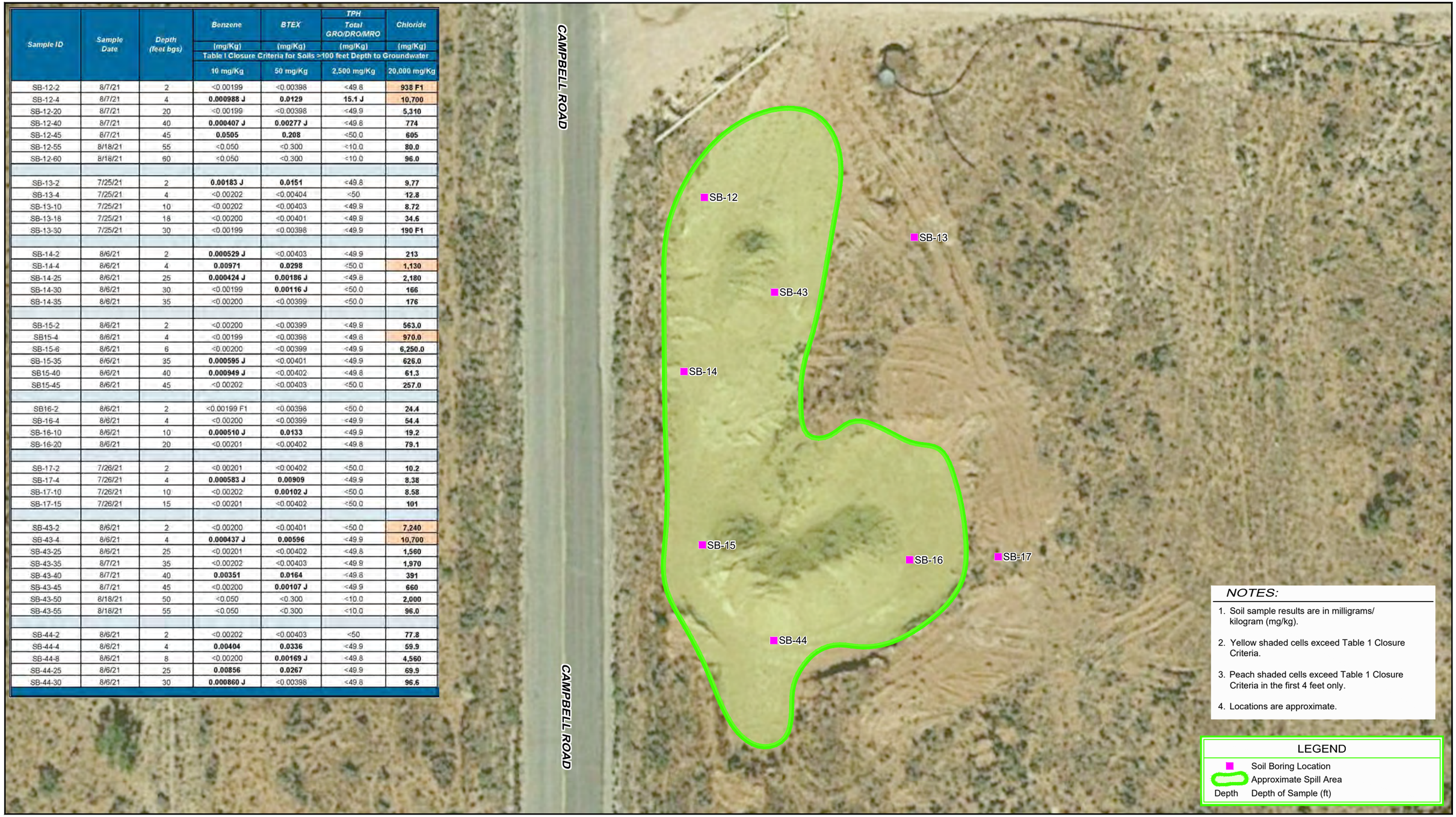
Jan 20, 2022

FIGURE 2

CAD File: \\ghdnet\ghd\USMidland\Projects\562\11220747\Digital_Design\ACAD 2018\Figures\RPT002\11220747-GHD-0000-RPT-EN-0101_DL-002.dwg

Released to Imaging: 5/2/2022 3:32:26 PM

Sample ID	Sample Date	Depth (feet bgs)	Benzene	BTEX	TPH Total GRO/DRO/MRO	Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater			
			10 mg/Kg	50 mg/Kg	2,500 mg/Kg	20,000 mg/Kg
SB-12-2	8/7/21	2	<0.00199	<0.00398	<49.8	**938 F1**
SB-12-4	8/7/21	4	**0.000988 J**	**0.0129**	**15.1 J**	**10,700**
SB-12-20	8/7/21	20	<0.00199	<0.00398	<49.9	**5,310**
SB-12-40	8/7/21	40	**0.000407 J**	**0.00277 J**	<49.8	**774**
SB-12-45	8/7/21	45	**0.0505**	**0.208**	<50.0	**605**
SB-12-55	8/18/21	55	<0.050	<0.300	<10.0	**80.0**
SB-12-60	8/18/21	60	<0.050	<0.300	<10.0	**96.0**
SB-13-2	7/25/21	2	**0.00183 J**	**0.0151**	<49.8	**9.77**
SB-13-4	7/25/21	4	<0.00202	<0.00404	<50	**12.8**
SB-13-10	7/25/21	10	<0.00202	<0.00403	<49.9	**8.72**
SB-13-18	7/25/21	18	<0.00200	<0.00401	<49.9	**34.6**
SB-13-30	7/25/21	30	<0.00199	<0.00398	<49.9	**190 F1**
SB-14-2	8/6/21	2	**0.000529 J**	<0.00403	<49.9	**213**
SB-14-4	8/6/21	4	**0.00971**	**0.0298**	<50.0	**1,130**
SB-14-25	8/6/21	25	**0.000424 J**	**0.00186 J**	<49.8	**2,180**
SB-14-30	8/6/21	30	<0.00199	**0.00116 J**	<50.0	**166**
SB-14-35	8/6/21	35	<0.00200	<0.00399	<50.0	**176**
SB-15-2	8/6/21	2	<0.00200	<0.00399	<49.9	**563.0**
SB15-4	8/6/21	4	<0.00199	<0.00398	<49.8	**970.0**
SB-15-6	8/6/21	6	<0.00200	<0.00399	<49.9	**6,250.0**
SB-15-35	8/6/21	35	**0.000595 J**	<0.00401	<49.9	**626.0**
SB15-40	8/6/21	40	**0.000949 J**	<0.00402	<49.8	**61.3**
SB15-45	8/6/21	45	<0.00202	<0.00403	<50.0	**257.0**
SB16-2	8/6/21	2	<0.00199 F1	<0.00398	<50.0	**24.4**
SB-16-4	8/8/21	4	<0.00200	<0.00399	<49.9	**54.4**
SB-16-10	8/6/21	10	**0.000510 J**	**0.0133**	<49.9	**19.2**
SB-16-20	8/6/21	20	<0.00201	<0.00402	<49.8	**79.1**
SB-17-2	7/26/21	2	<0.00201	<0.00402	<50.0	**10.2**
SB-17-4	7/26/21	4	**0.000583 J**	**0.00909**	<49.9	**8.38**
SB-17-10	7/26/21	10	<0.00202	**0.00102 J**	<50.0	**8.58**
SB-17-15	7/26/21	15	<0.00201	<0.00402	<50.0	**101**
SB-43-2	8/6/21	2	<0.00200	<0.00401	<50.0	**7,240**
SB-43-4	8/6/21	4	**0.000437 J**	**0.00596**	<49.9	**10,700**
SB-43-25	8/6/21	25	<0.00201	<0.00402	<49.8	**1,560**
SB-43-35	8/7/21	35	<0.00202	<0.00403	<49.9	**1,970**
SB-43-40	8/7/21	40	**0.00351**	**0.0164**	<49.8	**391**
SB-43-45	8/7/21	45	<0.00200	**0.00107 J**	<49.9	**660**
SB-43-50	8/18/21	50	<0.050	<0.300	<10.0	**2,000**
SB-43-55	8/18/21	55	<0.050	<0.300	<10.0	**96.0**
SB-44-2	8/6/21	2	<0.00202	<0.00403	<50	**77.8**
SB-44-4	8/6/21	4	**0.00404**	**0.0336**	<49.9	**59.9**
SB-44-8	8/6/21	8	<0.00200	**0.00169 J**	<49.8	**4,560**
SB-44-25	8/6/21	25	**0.00856**	**0.0267**	<49.9	**69.9**
SB-44-30	8/6/21	30	**0.000860 J**	<0.00398	<49.8	**96.6**



Source: Image © 2016 Google - Imagery Date: February 1, 2017

Lat/Long: 32.402374° North, 103.722648° West

0 15 30ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

GHD

EOG RESOURCES
LEA COUNTY, NEW MEXICO
FLAMENCO FEDERAL No.1

TIN HORN AREA 2021
SOIL BORING CONCENTRATION MAP

11220747

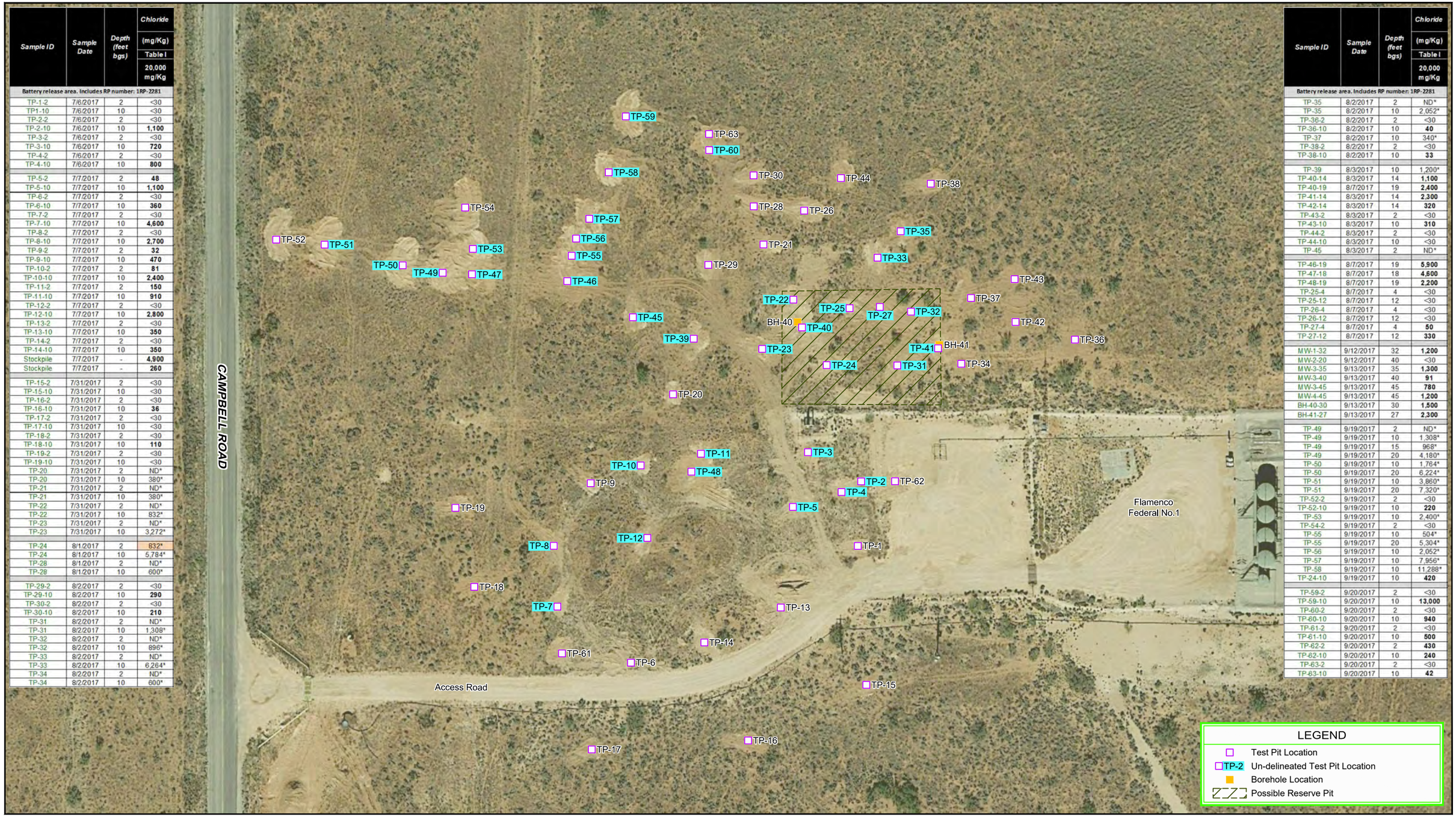
Jan 19, 2022

FIGURE 3

CAD File: \\ghdnet\ghd\US\Midland\Projects\560\11220747\Digital_Design\ACAD 2018\Figures\RPT002\11220747-GHD-0000-RPT-EN-0101_DL-002.dwg

Sample ID	Sample Date	Depth (feet bgs)	Chloride (mg/Kg) Table I 20,000 mg/Kg
Battery release area. Includes RP number: 1RP-2281			
TP-1-2	7/6/2017	2	<30
TP1-10	7/6/2017	10	<30
TP-2-2	7/6/2017	2	<30
TP-2-10	7/6/2017	10	1,100
TP-3-2	7/6/2017	2	<30
TP-3-10	7/6/2017	10	720
TP-4-2	7/6/2017	2	<30
TP-4-10	7/6/2017	10	800
TP-5-2	7/7/2017	2	48
TP-5-10	7/7/2017	10	1,100
TP-6-2	7/7/2017	2	<30
TP-6-10	7/7/2017	10	360
TP-7-2	7/7/2017	2	<30
TP-7-10	7/7/2017	10	4,600
TP-8-2	7/7/2017	2	<30
TP-8-10	7/7/2017	10	2,700
TP-9-2	7/7/2017	2	32
TP-9-10	7/7/2017	10	470
TP-10-2	7/7/2017	2	81
TP-10-10	7/7/2017	10	2,400
TP-11-2	7/7/2017	2	150
TP-11-10	7/7/2017	10	910
TP-12-2	7/7/2017	2	<30
TP-12-10	7/7/2017	10	2,800
TP-13-2	7/7/2017	2	<30
TP-13-10	7/7/2017	10	350
TP-14-2	7/7/2017	2	<30
TP-14-10	7/7/2017	10	350
Stockpile	7/7/2017	-	4,900
Stockpile	7/7/2017	-	260
TP-15-2	7/31/2017	2	<30
TP-15-10	7/31/2017	10	<30
TP-16-2	7/31/2017	2	<30
TP-16-10	7/31/2017	10	36
TP-17-2	7/31/2017	2	<30
TP-17-10	7/31/2017	10	<30
TP-18-2	7/31/2017	2	<30
TP-18-10	7/31/2017	10	110
TP-19-2	7/31/2017	2	<30
TP-19-10	7/31/2017	10	<30
TP-20	7/31/2017	2	ND*
TP-20	7/31/2017	10	380*
TP-21	7/31/2017	2	ND*
TP-21	7/31/2017	10	380*
TP-22	7/31/2017	2	ND*
TP-22	7/31/2017	10	832*
TP-23	7/31/2017	2	ND*
TP-23	7/31/2017	10	3,272*
TP-24	8/1/2017	2	832*
TP-24	8/1/2017	10	5,784*
TP-28	8/1/2017	2	ND*
TP-28	8/1/2017	10	600*
TP-29-2	8/2/2017	2	<30
TP-29-10	8/2/2017	10	290
TP-30-2	8/2/2017	2	<30
TP-30-10	8/2/2017	10	210
TP-31	8/2/2017	2	ND*
TP-31	8/2/2017	10	1,308*
TP-32	8/2/2017	2	ND*
TP-32	8/2/2017	10	896*
TP-33	8/2/2017	2	ND*
TP-33	8/2/2017	10	6,264*
TP-34	8/2/2017	2	ND*
TP-34	8/2/2017	10	600*

Sample ID	Sample Date	Depth (feet bgs)	Chloride (mg/Kg) Table I 20,000 mg/Kg
Battery release area. Includes RP number: 1RP-2281			
TP-35	8/2/2017	2	ND*
TP-35	8/2/2017	10	2,052*
TP-36-2	8/2/2017	2	<30
TP-36-10	8/2/2017	10	40
TP-37	8/2/2017	10	340*
TP-38-2	8/2/2017	2	<30
TP-38-10	8/2/2017	10	33
TP-39	8/3/2017	10	1,200*
TP-40-14	8/3/2017	14	1,100
TP-40-19	8/7/2017	19	2,400
TP-41-14	8/3/2017	14	2,300
TP-42-14	8/3/2017	14	320
TP-43-2	8/3/2017	2	<30
TP-43-10	8/3/2017	10	310
TP-44-2	8/3/2017	2	<30
TP-44-10	8/3/2017	10	<30
TP-45	8/3/2017	2	ND*
TP-46-19	8/7/2017	19	5,900
TP-47-18	8/7/2017	18	4,600
TP-48-19	8/7/2017	19	2,200
TP-25-4	8/7/2017	4	<30
TP-25-12	8/7/2017	12	<30
TP-26-4	8/7/2017	4	<30
TP-26-12	8/7/2017	12	<30
TP-27-4	8/7/2017	4	50
TP-27-12	8/7/2017	12	330
MW-1-32	9/12/2017	32	1,200
MW-2-20	9/12/2017	40	<30
MW-3-35	9/13/2017	35	1,300
MW-3-40	9/13/2017	40	91
MW-3-45	9/13/2017	45	780
MW-4-45	9/13/2017	45	1,200
BH-40-30	9/13/2017	30	1,500
BH-41-27	9/13/2017	27	2,300
TP-49	9/19/2017	2	ND*
TP-49	9/19/2017	10	1,308*
TP-49	9/19/2017	15	968*
TP-49	9/19/2017	20	4,180*
TP-50	9/19/2017	10	1,764*
TP-50	9/19/2017	20	6,224*
TP-51	9/19/2017	10	3,860*
TP-51	9/19/2017	20	7,320*
TP-52-2	9/19/2017	2	<30
TP-52-10	9/19/2017	10	220
TP-53	9/19/2017	10	2,400*
TP-54-2	9/19/2017	2	<30
TP-55	9/19/2017	10	504*
TP-55	9/19/2017	20	5,304*
TP-56	9/19/2017	10	2,052*
TP-57	9/19/2017	10	7,956*
TP-58	9/19/2017	10	11,288*
TP-24-10	9/19/2017	10	420
TP-59-2	9/20/2017	2	<30
TP-59-10	9/20/2017	10	13,000
TP-60-2	9/20/2017	2	<30
TP-60-10	9/20/2017	10	940
TP-61-2	9/20/2017	2	<30
TP-61-10	9/20/2017	10	500
TP-62-2	9/20/2017	2	430
TP-62-10	9/20/2017	10	240
TP-63-2	9/20/2017	2	<30
TP-63-10	9/20/2017	10	42



Source: Image © 2016 Google - Imagery Date: February 1, 2017

Lat/Long: 32.403052° North, 103.721576° West

0 40 80ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

NOTES:

1. Sample results are in milligrams/kilogram (mg/kg).
2. Yellow shaded cells exceed Table 1 Closure Criteria.
3. Peach shaded cells exceed Table 1 Closure Criteria in the first 4 feet only.
4. Locations are approximate.

EOG RESOURCES
LEA COUNTY, NEW MEXICO
FLAMENCO FEDERAL No.1 - BATTERY AREA

BATTERY AREA ASSESSMENT
CONCENTRATION MAP PRIOR TO 2021

11220747

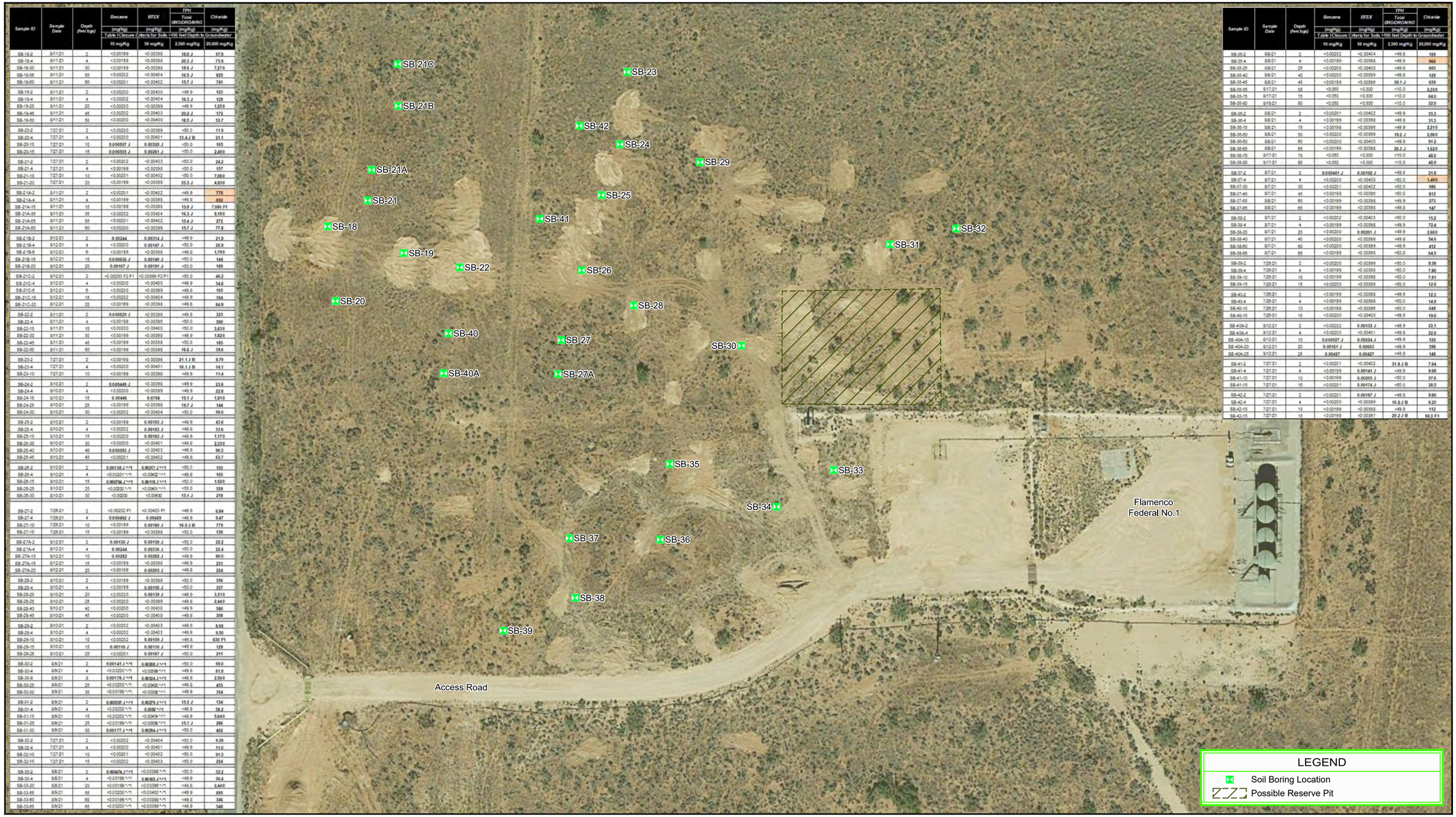
Jan 20, 2022

FIGURE 4

CAD File: \\ghdnet\ghd\US\Midland\Projects\502\11220747\Digital_Design\ACAD 2018\Figures\RPT002\11220747-GHD-0000-RPT-EN-0102_DL-002.dwg

Sample ID	Sample Date	Depth (feet bgs)	Benzene	BTEX	TPH Total GRO/DRO/MRO	Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater			
			10 mg/Kg	50 mg/Kg	2,500 mg/Kg	20,000 mg/Kg
SB-18-2	8/11/21	2	<0.00199	<0.00398	18.0 J	97.9
SB-18-4	8/11/21	4	<0.00199	<0.00398	20.3 J	73.9
SB-18-30	8/11/21	30	<0.00199	<0.00398	18.6 J	7,270
SB-18-55	8/11/21	55	<0.00202	<0.00404	16.5 J	925
SB-18-60	8/11/21	60	<0.00201	<0.00402	15.7 J	741
SB-19-2	8/11/21	2	<0.00200	<0.00400	<49.9	123
SB-19-4	8/11/21	4	<0.00202	<0.00404	16.3 J	129
SB-19-20	8/11/21	20	<0.00200	<0.00399	<49.9	1,250
SB-19-45	8/11/21	45	<0.00202	<0.00403	20.2 J	172
SB-19-50	8/11/21	50	<0.00200	<0.00400	18.5 J	53.7
SB-20-2	7/27/21	2	<0.00200	<0.00399	<50.0	11.9
SB-20-4	7/27/21	4	<0.00200	<0.00401	15.4 J B	21.1
SB-20-10	7/27/21	10	0.000507 J	0.00320 J	<50.0	165
SB-20-15	7/27/21	15	0.000505 J	0.00281 J	<50.0	2,410
SB-21-2	7/27/21	2	<0.00202	<0.00403	<50.0	24.2
SB-21-4	7/27/21	4	<0.00199	<0.00398	<50.0	157
SB-21-10	7/27/21	10	<0.00201	<0.00402	<50.0	7,080
SB-21-20	7/27/21	20	<0.00199	<0.00398	25.3 J	4,850
SB-21A-2	8/11/21	2	<0.00201	<0.00402	<49.9	778
SB-21A-4	8/11/21	4	<0.00199	<0.00398	<49.8	692
SB-21A-15	8/11/21	15	<0.00199	<0.00398	15.8 J	7,080 F1
SB-21A-35	8/11/21	35	<0.00202	<0.00404	16.3 J	9,180
SB-21A-55	8/11/21	55	<0.00201	<0.00402	15.4 J	272
SB-21A-60	8/11/21	60	<0.00200	<0.00399	15.7 J	77.8
SB-21B-2	8/12/21	2	0.00244	0.00314 J	<49.9	21.9
SB-21B-4	8/12/21	4	<0.00200	0.00147 J	<50.0	20.9
SB-21B-6	8/12/21	6	<0.00199	<0.00398	<49.8	1,790
SB-21B-15	8/12/21	15	0.000636 J	0.00140 J	<50.0	144
SB-21B-20	8/12/21	20	0.00107 J	0.00191 J	<50.0	189
SB-21C-2	8/12/21	2	<0.00200 F2 F1	<0.00399 F2 F1	<50.0	46.2
SB-21C-4	8/12/21	4	<0.00200	<0.00400	<49.9	34.8
SB-21C-6	8/12/21	6	<0.00200	<0.00399	<49.8	105
SB-21C-15	8/12/21	15	<0.00202	<0.00404	<49.9	104
SB-21C-20	8/12/21	20	<0.00199	<0.00398	<49.8	84.9
SB-22-2	8/11/21	2	0.000529 J	<0.00399	<49.8	323
SB-22-4	8/11/21	4	<0.00198	<0.00395	<50.0	396
SB-22-15	8/11/21	15	<0.00200	<0.00400	<50.0	3,830
SB-22-30	8/11/21	30	<0.00199	<0.00398	<49.9	1,820
SB-22-45	8/11/21	45	<0.00199	<0.00398	<50.0	165
SB-22-50	8/11/21	50	<0.00199	<0.00398	16.8 J	39.6
SB-23-2	7/27/21	2	<0.00198	<0.00396	21.1 J B	9.79
SB-23-4	7/27/21	4	<0.00200	<0.00401	16.1 J B	14.1
SB-23-10	7/27/21	10	<0.00199	<0.00398	<49.9	11.4
SB-24-2	8/10/21	2	0.000449 J	<0.00399	<49.9	23.6
SB-24-4	8/10/21	4	<0.00200	<0.00399	<49.9	22.8
SB-24-15	8/10/21	15	0.00446	0.0768	15.1 J	1,810
SB-24-25	8/10/21	25	<0.00199	<0.00398	19.7 J	144
SB-24-30	8/10/21	30	<0.00202	<0.00404	<50.0	99.6
SB-25-2	8/10/21	2	<0.00199	0.00153 J	<49.9	43.6
SB-25-4	8/10/21	4	<0.00202	0.00183 J	<49.8	33.6
SB-25-15	8/10/21	15	<0.00200	0.00163 J	<49.9	1,170
SB-25-30	8/10/21	30	<0.00200	<0.00401	<49.8	2,330
SB-25-40	8/10/21	40	0.000393 J	<0.00403	<49.9	90.3
SB-25-45	8/10/21	45	<0.00201	<0.00402	<49.8	63.7
SB-26-2	8/10/21	2	0.00138 J [+1]	0.00217 J [+1]	<50.0	103
SB-26-4	8/10/21	4	<0.00201 [+1]	<0.00402 [+1]	<49.8	105
SB-26-15	8/10/21	15	0.000734 J [+1]	0.00118 J [+1]	<50.0	1,520
SB-26-25	8/10/21	25	<0.00200 [+1]	<0.00401 [+1]	<50.0	529
SB-26-30	8/10/21	30	<0.00200	<0.00400	15.1 J	219
SB-27-2	7/26/21	2	<0.00202 F1	<0.00403 F1	<49.9	6.84
SB-27-4	7/26/21	4	0.000492 J	0.00429	<49.9	9.47
SB-27-10	7/26/21	10	<0.00199	0.00180 J	16.0 J B	779
SB-27-15	7/26/21	15	<0.00199	<0.00398	<50.0	138
SB-27A-2	8/12/21	2	0.00130 J	0.00130 J	<50.0	22.2
SB-27A-4	8/12/21	4	0.00244	0.00336 J	<50.0	22.4
SB-27A-10	8/12/21	10	0.00282	0.00282 J	<49.9	90.8
SB-27A-15	8/12/21	15	<0.00199	<0.00398	<49.9	231
SB-27A-20	8/12/21	20	<0.00199	0.00203 J	<49.8	224
SB-28-2	8/10/21	2	<0.00199	<0.00398	<50.0	356
SB-28-4	8/10/21	4	<0.00199	0.00156 J	<50.0	357
SB-28-20	8/10/21	20	<0.00200	0.00139 J	<49.9	3,310
SB-28-25	8/10/21	25	<0.00200	<0.00399	<49.8	2,440
SB-28-40	8/10/21	40	<0.00200	<0.00400	<49.9	580
SB-28-45	8/10/21	45	<0.00200	<0.00400	<49.8	308
SB-29-2	8/10/21	2	<0.00202	<0.00403	<49.9	8.65
SB-29-4	8/10/21	4	<0.00202	<0.00403	<49.9	9.50
SB-29-10	8/10/21	10	<0.00202	0.00109 J	<49.8	630 F1
SB-29-15	8/10/21	15	0.00110 J	0.00110 J	<49.9	129
SB-29-25	8/10/21	25	<0.00201	0.00167 J	<50.0	211
SB-30-2	8/9/21	2	0.00141 J [+1]	0.00308 J [+1]	<50.0	99.8
SB-30-4	8/9/21	4	<0.00200 [+1]	<0.00398 [+1]	<49.9	81.9
SB-30-8	8/9/21	8	0.00178 J [+1]	0.00324 J [+1]	<49.9	2,540
SB-30-25	8/9/21	25	<0.00200 [+1]	<0.00400 [+1]	<49.8	453
SB-30-30	8/9/21	30	<0.00199 [+1]	<0.00398 [+1]	<49.9	354
SB-31-2	8/9/21	2	0.00107 J [+1]	0.00279 J [+1]	15.5 J	134
SB-31-4	8/9/21	4	<0.00200 [+1]	0.0132 [+1]	<49.9	58.2
SB-31-15	8/9/21	15	<0.00202 [+1]	<0.00404 [+1]	<49.9	5,640
SB-31-25	8/9/21	25	<0.00199 [+1]	<0.00398 [+1]	15.1 J	286
SB-31-30	8/9/21	30	0.00177 J [+1]	0.00254 J [+1]	<50.0	402
SB-32-2	7/27/21	2	<0.00202	<0.00404	<50.0	9.39
SB-32-4	7/27/21	4	<0.00200	<0.00401	<49.9	11.8
SB-32-10	7/27/21	10	<0.00201	<0.00402	<50.0	91.3
SB-32-15	7/27/21	15	<0.00202	<0.00403	<50.0	224
SB-33-2	8/6/21	2	0.00474 J [+1]	<0.00398 [+1]	<50.0	32.2
SB-33-4	8/6/21	4	<0.00198 [+1]	0.00185 J [+1]	<49.9	30.4
SB-33-20	8/6/21	20	<0.00198 [+1]	<0.00396 [+1]	<49.8	2,440
SB-33-55	8/6/21	55	<0.00200 [+1]	<0.00400 [+1]	<49.9	895
SB-33-60	8/6/21	60	<0.00199 [+1]	<0.00396 [+1]	<49.8	346
SB-33-65	8/6/21	65	<0.00200 [+1]	<0.00399 [+1]	<49.9	548

Sample ID	Sample Date	Depth (feet bgs)	Benzene	BTEX	TPH Total GRO/DRO/MRO	Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater			
			10 mg/Kg	50 mg/Kg	2,500 mg/Kg	20,000 mg/Kg
SB-35-2	8/6/21	2	<0.00202	<0.00404	<49.8	109
SB-35-4	8/6/21	4	<0.00199	<0.00398	<49.9	966
SB-35-25	8/6/21	25	<0.00200	<0.00400	<49.9	660
SB-35-40	8/6/21	40	<0.00200	<0.00399	<49.8	129
SB-35-45	8/6/21	45	<0.00198	<0.00396	30.1 J	639
SB-35-55	8/17/21	55	<0.050	<0.300	<10.0	2,320
SB-35-75	8/17/21	75	<0.050	<0.300	<10.0	64.0
SB-35-80	8/18/21	80	<0.050	<0.300	<10.0	32.0
SB-36-2	8/6/21	2	<0.00201	<0.00402	<49.9	35.3
SB-36-4	8/6/21	4	<0.00199	<0.00399	<49.8	31.3
SB-36-15	8/6/21	15	<0.00198	<0.00395	<49.9	2,210
SB-36-50	8/6/21	50	<0.00200	<0.00399	19.2 J	2,060
SB-36-60	8/6/21	60	<0.00200	<0.00400	<49.9	91.2
SB-36-65	8/6/21	65	<0.00199	<0.00398	26.3 J	1,520
SB-36-75	8/17/21	75	<0.050	<0.300	<10.0	48.0
SB-36-80	8/17/21	80	<0.050	<0.300	<10.0	48.0
SB-37-2	8/7/21	2	0.000401 J	0.00102 J	<49.8	21.8
SB-37-4	8/7/21	4	<0.00200	<0.00400	<50.0	1,480
SB-37-30	8/7/21	30	<0.00201	<0.00402	<50.0	986
SB-37-45	8/7/21	45	<0.00199	<0.00398	<50.0	812
SB-37-60	8/8/21	60	<0.00199	<0.00398	<49.9	273
SB-37-65	8/8/21	65	<0.00199	<0.00398	<49.8	147
SB-38-2	8/7/21	2	<0.00202	<0.00403	<50.0	15.2
SB-38-4	8/7/21	4	<0.00199	<0.00398	<49.9	72.4
SB-38-20	8/7/21	20	<0.00200	0.00201 J	<49.9	2,580
SB-38-40	8/7/21	40	<0.00200	<0.00399	<49.8	54.6
SB-38-60	8/7/21	60	<0.00200	<0.00399	<49.9	412
SB-38-65	8/7/21	65	<0.00199	<0.00398	<50.0	64.5
SB-39-2	7/26/21	2	<0.00200	<0.00398	<50.0	9.36
SB-39-4	7/26/21	4	<0.00199	<0.00398	<50.0	7.86
SB-39-10	7/26/21	10	<0.00199	<0.00398	<50.0	7.81
SB-39-15	7/26/21	15	<0.00200	<0.00399	<50.0	12.9
SB-40-2	7/26/21	2	<0.00199	<0.00398	<49.9	12.3
SB-40-4	7/26/21	4	<0.00199	<0.00398	<50.0	14.9
SB-40-10	7/26/21	10	<0.00198	<0.00396	<50.0	649
SB-40-15	7/26/21	15	<0.00200	<0.00400	<49.9	19.0
SB-40A-2	8/12/21	2	<0.00202	0.00132 J	<49.9	22.1
SB-40A-4	8/12/21	4	<0.00200	<0.00401	<49.9	22.8
SB-40A-10	8/12/21	10	0.000527 J	0.00224 J	<49.9	120
SB-40A-20	8/12/21	20	0.00161 J	0.00663	<49.9	396
SB-40A-25	8/12/21	25	0.00427	0.00427	<49.8	148
SB-41-2	7/27/21	2	<0.00201	<0.00402	31.9 J B	7.94
SB-41-4	7/27/21	4	<0.00199	0.00141 J	<49.9	9.58
SB-41-10	7/27/21	10	<0.00199	0.00205 J	<50.0	57.6
SB-41-15	7/27/21	15	<0.00201	0.00174 J	<50.0	28.5
SB-42-2	7/27/21	2	<0.00201	0.00167 J	<49.8	9.60
SB-42-4	7/27/21	4	<0.00200	<0.00399	18.8 J B	8.25
SB-42-10	7/27/21	10	<0.00199	<0.00398	<49.9	112
SB-42-15	7/27/21	15	<0.00198	<0.00397	20.2 J B	60.3 F1



Source: Image © 2016 Google - Imagery Date: February 1, 2017

Lat/Long: 32.403052° North, 103.721576° West

0 40 80ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

NOTES:

1. Sample results are in milligrams/kilogram (mg/kg).
2. Yellow shaded cells exceed Table 1 Closure Criteria.
3. Peach shaded cells exceed Table 1 Closure Criteria in the first 4 feet only.
4. Locations are approximate.

EOG RESOURCES
LEA COUNTY, NEW MEXICO
FLAMENCO FEDERAL No.1 - BATTERY AREA

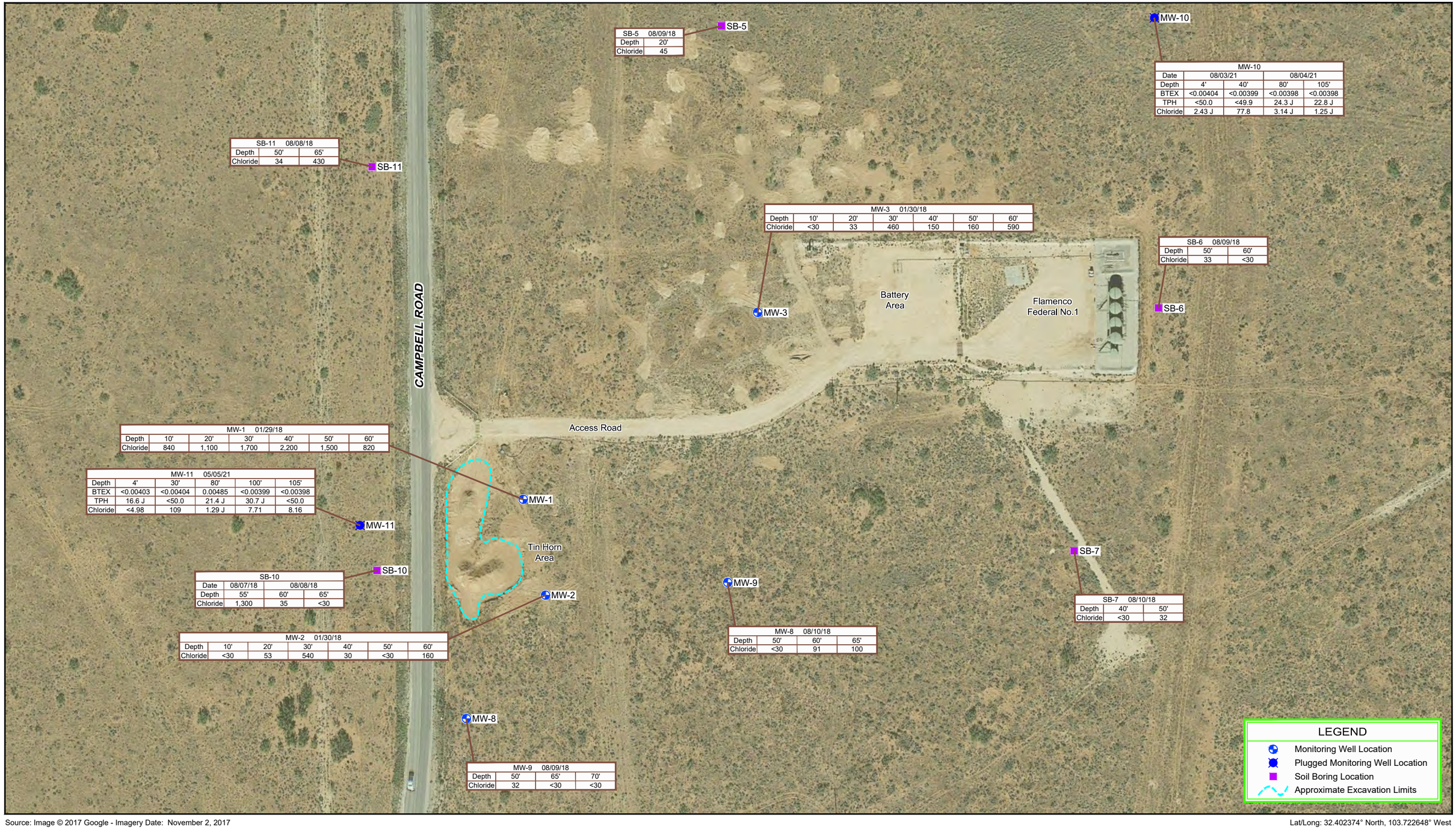
BATTERY AREA 2021
SOIL BORING CONCENTRATION MAP

11220747

Jan 20, 2022

FIGURE 5

CAD File: \\ghdnet\ghd\USMidland\Projects\560\11220747\Digital_Design\ACAD 2018\Figures\RPT002\11220747-GHD-0000-RPT-EN-0102_DL-002.dwg



Source: Image © 2017 Google - Imagery Date: November 2, 2017

Lat/Long: 32.402374° North, 103.722648° West

0 60 120ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

NOTES:

1. Chloride groundwater sample results in milligrams/kilogram (mg/kg).
2. MW-10 and MW-11, TD 105' were dry and plugged on August 5, 2021.
3. Plugging reports and boring log details provided in Attachment B.
4. Locations are approximate.

GHD

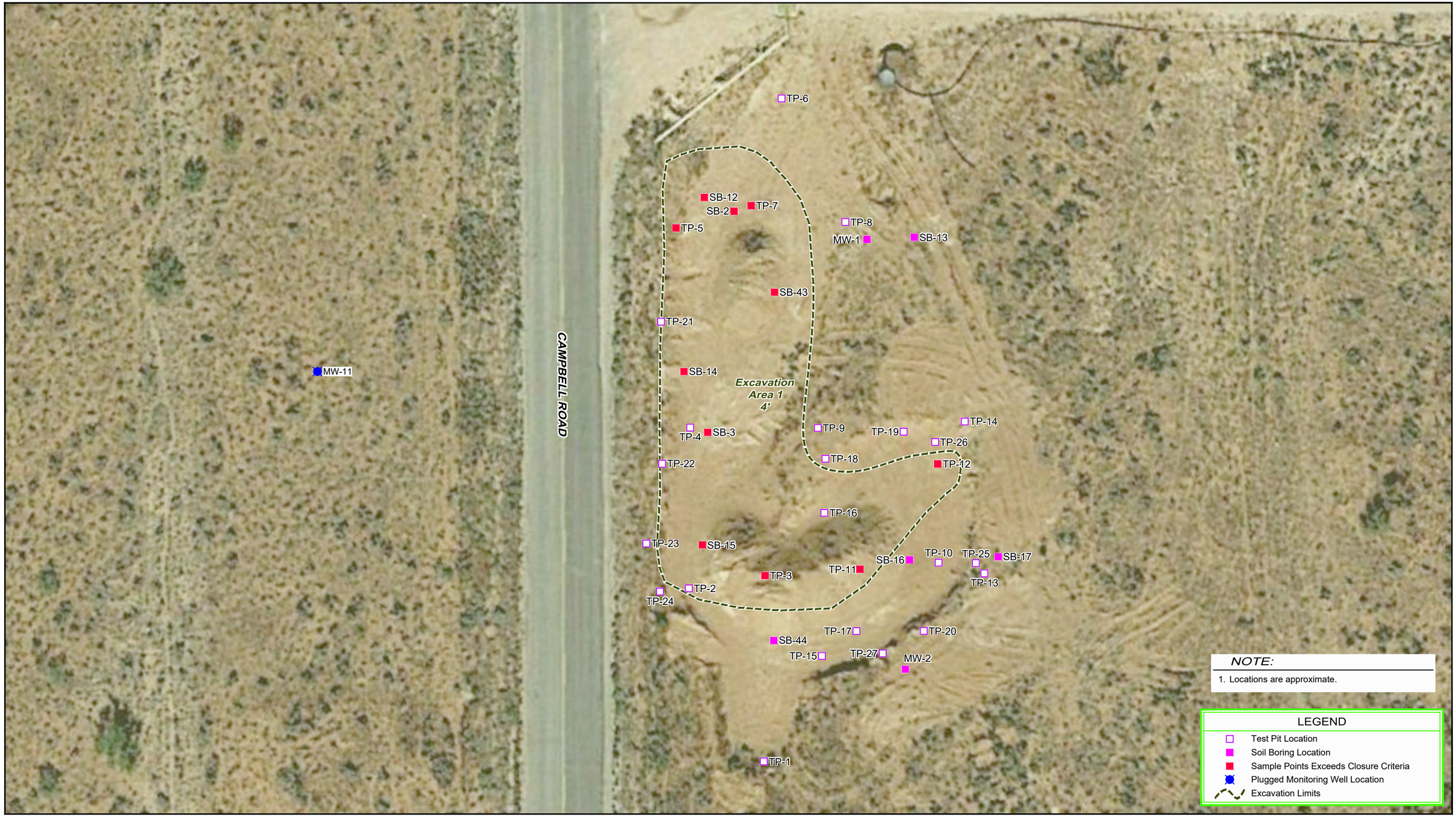
EOG RESOURCES
LEA COUNTY, NEW MEXICO
FLAMENCO FEDERAL No.1

11220747

Jan 26, 2022

SURROUNDING AREA SOIL BORING CONCENTRATIONS MAP FIGURE 6

CAD File: \\ghdnet\ghd\US\Midland\Projects\662\11220747\Digital_Design\ACAD 2018\Figures\RPT002\11220747-GHD-0000-RPT-EN-0103_DL-002.dwg



Source: Image © 2016 Google - Imagery Date: February 1, 2017

Lat/Long: 32.402374° North, 103.722648° West

0 15 30ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

EOG RESOURCES
LEA COUNTY, NEW MEXICO
FLAMENCO FEDERAL No.1

TIN HORN AREA
PROPOSED EXCAVATION AREA

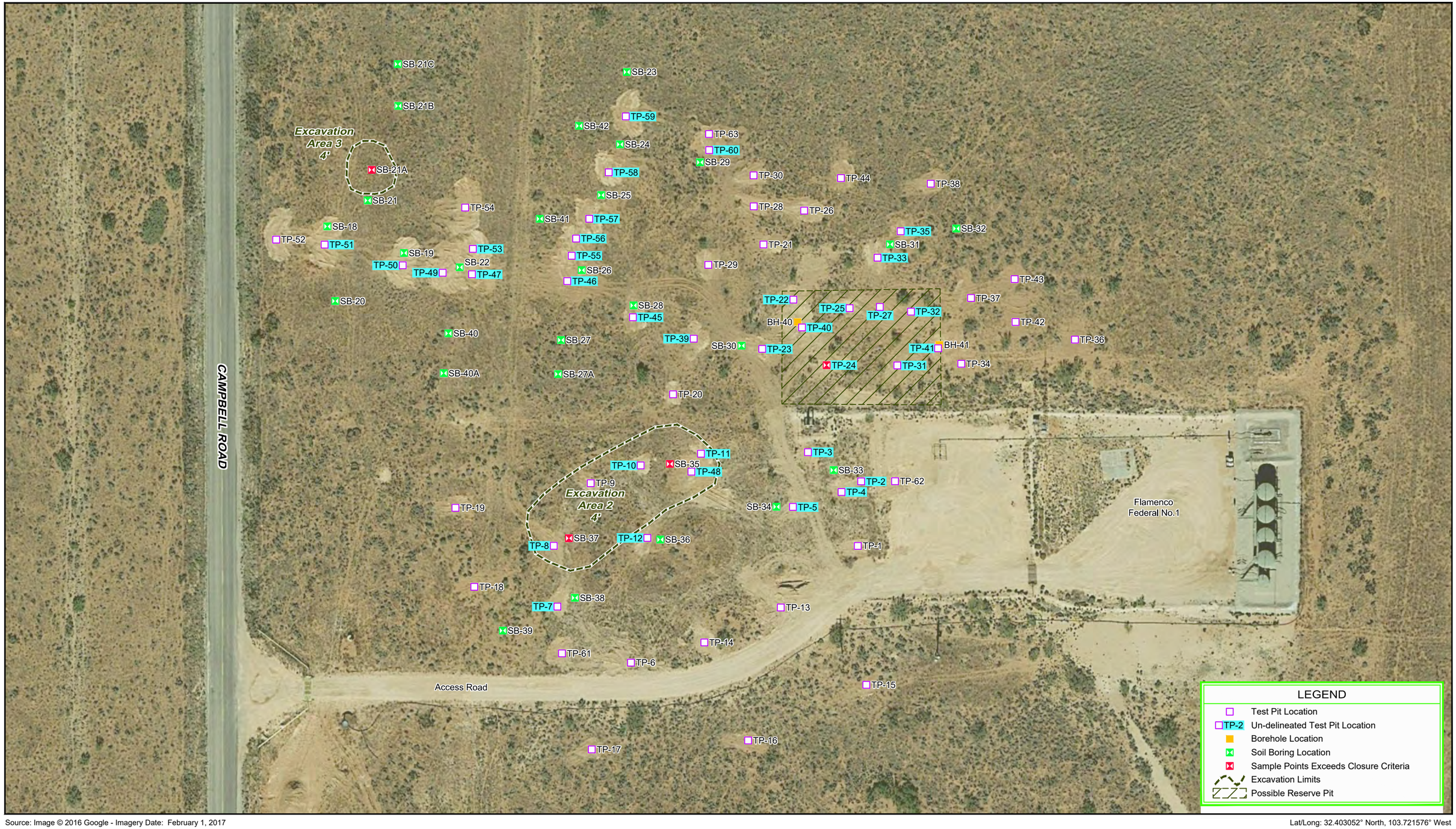
11220747

Feb 21, 2022

FIGURE 7

CAD File: \\ghdnet\ghd\US\Midland\Projects\56\11220747\Digital_Design\ACAD 2018\Figures\RPT002\11220747-GHD-0000-RPT-EN-0104_DL-002.dwg

Released to Imaging: 3/2/2022 3:32:26 PM



Source: Image © 2016 Google - Imagery Date: February 1, 2017

Lat/Long: 32.403052° North, 103.721576° West

0 40 80ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

N

NOTE:

1. Locations are approximate.

GHD

EOG RESOURCES
LEA COUNTY, NEW MEXICO
FLAMENCO FEDERAL No.1 - BATTERY AREA

11220747

Jan 28, 2022

BATTERY AREA PROPOSED EXCAVATION AREA

FIGURE 8

CAD File: \\ghdnetghd\USMidland\Projects\562\11220747\Digital_Design\ACAD 2018\Figures\RPT002\11220747-GHD-0000-RPT-EN-0105_DL-002.dwg

Tables

Released to Imaging: 5/2/2022 3:32:26 PM
Received by OCD: 2/28/2022 3:03:33 PM

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
Tin horn release area. Includes RP numbers: 1RP-2784, 1RP-2790, 1RP-4800, and 1RP-4801												
TP-1-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-1-10	6/8/2017	10	-	-	-	-	-	-	-	-	-	<30
TP-2-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-2-10	6/8/2017	10	-	-	-	-	-	-	-	-	-	**52**
TP-3-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	**4,600**
TP-3-10	6/8/2017	10	-	-	-	-	-	-	-	-	-	**150**
TP-4-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-4-10	6/8/2017	10	-	-	-	-	-	-	-	-	-	**6,800**
TP-5-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	**6,800**
TP-5-10	6/8/2017	10	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.5	<47.0	<61.4	**3,900**
TP-6-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-6-10	6/8/2017	10	-	-	-	-	-	-	-	-	-	**200**
TP-7-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	**8,800**
TP-7-10	6/8/2017	10	-	-	-	-	-	-	-	-	-	**1,700**
TP-8-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-8-10	6/8/2017	10	<0.024	<0.049	<0.049	<0.098	<0.220	<4.9	<9.6	<48.0	<62.5	**240**
TP-9-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-9-10	6/8/2017	10	-	-	-	-	-	-	-	-	-	**79**
TP-10-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-10-10	6/8/2017	10	-	-	-	-	-	-	-	-	-	**4,800**
TP-11-2	6/8/2017	2	-	-	-	-	-	-	-	-	-	**1,700**
TP-11-10	6/8/2017	10	-	-	-	-	-	-	-	-	-	**9,000**
TP-12-4	6/28/2017	4	-	-	-	-	-	-	-	-	-	**860**
TP-12-12	6/28/2017	12	-	-	-	-	-	-	-	-	-	**440**
TP-13-4	6/28/2017	4	-	-	-	-	-	-	-	-	-	<30
TP-13-12	6/28/2017	12	-	-	-	-	-	-	-	-	-	<30
TP-14-4	6/28/2017	4	-	-	-	-	-	-	-	-	-	<30
TP-14-12	6/28/2017	12	-	-	-	-	-	-	-	-	-	<30
TP-15-4	6/28/2017	4	-	-	-	-	-	-	-	-	-	<30
TP-15-12	6/28/2017	12	-	-	-	-	-	-	-	-	-	**35**
TP-19-4	6/29/2017	4	-	-	-	-	-	-	-	-	-	<30

Released to Imaging: 5/2/2022 3:32:26 PM
Received by OCD: 2/28/2022 3:03:33 PM

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
TP-19-12	6/29/2017	12	-	-	-	-	-	-	-	-	-	<30
TP-20-4	6/29/2017	4	-	-	-	-	-	-	-	-	-	<30
TP-20-12	6/29/2017	12	-	-	-	-	-	-	-	-	-	**110**
Stockpile	6/29/2017		-	-	-	-	-	-	-	-	-	**180**
TP-21-4	7/5/2017	4	-	-	-	-	-	-	-	-	-	**80**
TP-21-12	7/5/2017	12	-	-	-	-	-	-	-	-	-	**7,600**
TP-23-4	7/5/2017	4	-	-	-	-	-	-	-	-	-	**77**
TP-23-12	7/5/2017	12	-	-	-	-	-	-	-	-	-	**2,900**
TP-24-4	7/5/2017	4	-	-	-	-	-	-	-	-	-	<30
TP-24-12	7/5/2017	12	-	-	-	-	-	-	-	-	-	<30
SB-3-20	7/19/2017	20	-	-	-	-	-	-	-	-	-	**170**
SB-3-30	7/19/2017	30	-	-	-	-	-	-	-	-	-	**570**
SB-2-20	7/20/2017	20	-	-	-	-	-	-	-	-	-	**1,200**
SB-2-30	7/20/2017	30	-	-	-	-	-	-	-	-	-	**1,000**
SB-2-40	7/20/2017	40	-	-	-	-	-	-	-	-	-	**510**
SB-2-50	7/20/2017	50	-	-	-	-	-	-	-	-	-	**650**
TP-16	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-16	7/31/2017	10	-	-	-	-	-	-	-	-	-	ND*
TP-17	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-17	7/31/2017	10	-	-	-	-	-	-	-	-	-	ND*
TP-18	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-18	7/31/2017	10	-	-	-	-	-	-	-	-	-	ND*
TP-22	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-22	7/31/2017	10	-	-	-	-	-	-	-	-	-	**832***
TP-25	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-25	7/31/2017	10	-	-	-	-	-	-	-	-	-	**3,272***
TP-26	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-26	7/31/2017	10	-	-	-	-	-	-	-	-	-	**896***
TP-27	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-27	7/31/2017	10	-	-	-	-	-	-	-	-	-	**272***

Released to Imaging: 5/2/2022 3:32:26 PM
Received by OCD: 2/28/2022 3:03:33 PM

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
MW-1-32	9/12/2017	32	-	-	-	-	-	-	-	-	-	**1,200**
MW-2-20	9/12/2017	20	-	-	-	-	-	-	-	-	-	<30
MW-4-45	9/13/2017	45	-	-	-	-	-	-	-	-	-	**1,200**
MW-3-35	9/13/2017	35	-	-	-	-	-	-	-	-	-	**1,300**
MW-3-40	9/13/2017	40	-	-	-	-	-	-	-	-	-	**91**
MW-3-45	9/13/2017	45	-	-	-	-	-	-	-	-	-	**780**
BH-41-27	9/13/2017	27	-	-	-	-	-	-	-	-	-	**2,300**
BH-40-30	9/13/2017	30	-	-	-	-	-	-	-	-	-	**1,500**
MW-1-10 (MW-5)	1/29/2018	10	-	-	-	-	-	-	-	-	-	**840**
MW-1-20 (MW-5)	1/29/2018	20	-	-	-	-	-	-	-	-	-	**1,100**
MW-1-30 (MW-5)	1/29/2018	30	-	-	-	-	-	-	-	-	-	**1,700**
MW-1-40 (MW-5)	1/29/2018	40	-	-	-	-	-	-	-	-	-	**2,200**
MW-1-50 (MW-5)	1/29/2018	50	-	-	-	-	-	-	-	-	-	**1,500**
MW-1-60 (MW-5)	1/29/2018	60	-	-	-	-	-	-	-	-	-	**820**
MW-2-10 (MW-6)	1/29/2018	10	-	-	-	-	-	-	-	-	-	< 30
MW-2-20 (MW-6)	1/29/2018	20	-	-	-	-	-	-	-	-	-	**53**
MW-2-30 (MW-6)	1/29/2018	30	-	-	-	-	-	-	-	-	-	**540**
MW-2-40 (MW-6)	1/29/2018	40	-	-	-	-	-	-	-	-	-	**30**
MW-2-50 (MW-6)	1/29/2018	50	-	-	-	-	-	-	-	-	-	< 30
MW-2-60 (MW-6)	1/29/2018	60	-	-	-	-	-	-	-	-	-	**160**
MW-3-10 (MW-7)	1/29/2018	10	-	-	-	-	-	-	-	-	-	< 30
MW-3-20 (MW-7)	1/29/2018	20	-	-	-	-	-	-	-	-	-	**33**
MW-3-30 (MW-7)	1/29/2018	30	-	-	-	-	-	-	-	-	-	**460**
MW-3-40 (MW-7)	1/29/2018	40	-	-	-	-	-	-	-	-	-	**150**
MW-3-50 (MW-7)	1/29/2018	50	-	-	-	-	-	-	-	-	-	**160**
MW-3-60 (MW-7)	1/29/2018	60	-	-	-	-	-	-	-	-	-	**590**
SB-12-2	8/7/21	2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	**938 F1**
SB-12-4	8/7/21	4	**0.000988 J**	**0.00334 B**	**0.0036**	**0.00497**	**0.0129**	<49.9	**15.1 J**	<49.9	**15.1 J**	**10,700**
SB-12-20	8/7/21	20	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	**5,310**
SB-12-40	8/7/21	40	**0.000407 J**	**0.000889 J B**	**0.000859 J**	<0.00401	**0.00277 J**	<49.8	<49.8	<49.8	<49.8	**774**

Page 19 of 713

Released to Imaging: 5/2/2022 3:32:26 PM
Received by OCD: 2/28/2022 3:03:33 PM

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
SB-12-45	8/7/21	45	**0.0505**	**0.00602 B**	**0.0547**	**0.0969**	**0.208**	<50.0	<50.0	<50.0	<50.0	**605**
SB-12-55	8/18/21	55	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	**80.0**
SB-12-60	8/18/21	60	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	**96.0**
SB-13-2	7/25/21	2	**0.00183 J**	<0.00200	**0.00188 J**	**0.0114**	**0.0151**	<49.8	<49.8	<49.8	<49.8	**9.77**
SB-13-4	7/25/21	4	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50	<50	<50	<50	**12.8**
SB-13-10	7/25/21	10	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	<49.9	<49.9	<49.9	**8.72**
SB-13-18	7/25/21	18	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	**34.6**
SB-13-30	7/25/21	30	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	**190 F1**
SB-14-2	8/6/21	2	**0.000529 J**	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	<49.9	<49.9	<49.9	**213**
SB-14-4	8/6/21	4	**0.00971**	**0.00269 B**	**0.00986**	**0.00750**	**0.0298**	<50.0	<50.0	<50.0	<50.0	**1,130**
SB-14-25	8/6/21	25	**0.000424 J**	**0.000983 J B**	<0.00201	<0.00402	**0.00186 J**	<49.8	<49.8	<49.8	<49.8	**2,180**
SB-14-30	8/6/21	30	<0.00199	<0.00199	**0.000581 J**	<0.00398	**0.00116 J**	<50.0	<50.0	<50.0	<50.0	**166**
SB-14-35	8/6/21	35	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	**176**
SB-15-2	8/6/21	2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	**563.0**
SB15-4	8/6/21	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	**970.0**
SB-15-6	8/6/21	6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	**6,250.0**
SB-15-35	8/6/21	35	**0.000595 J**	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	**626.0**
SB15-40	8/6/21	40	**0.000949 J**	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	<49.8	<49.8	<49.8	**61.3**
SB15-45	8/6/21	45	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	**257.0**
SB16-2	8/6/21	2	<0.00199 F1	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	**24.4**
SB-16-4	8/6/21	4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	**54.4**
SB-16-10	8/6/21	10	**0.000510 J**	**0.000880 J B**	**0.000630 J**	**0.0113**	**0.0133**	<49.9	<49.9	<49.9	<49.9	**19.2**
SB-16-20	8/6/21	20	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	<49.8	<49.8	<49.8	**79.1**

Released to Imaging: 5/2/2022 3:32:26 PM
Received by OCD: 2/28/2022 3:03:33 PM

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
SB-17-2	7/26/21	2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	**10.2**
SB-17-4	7/26/21	4	**0.000583 J**	**0.00283**	**0.000943 J**	**0.00473**	**0.00909**	<49.9	<49.9	<49.9	<49.9	**8.38**
SB-17-10	7/26/21	10	<0.00202	<0.00202	**0.000644 J**	<0.00403	**0.00102 J**	<50.0	<50.0	<50.0	<50.0	**8.58**
SB-17-15	7/26/21	15	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	**101**
SB-43-2	8/6/21	2	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	**7,240**
SB-43-4	8/6/21	4	**0.000437 J**	**0.00164 J B**	**0.00195 J**	**0.00193 J**	**0.00596**	<49.9	<49.9	<49.9	<49.9	**10,700**
SB-43-25	8/6/21	25	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	<49.8	<49.8	<49.8	**1,560**
SB-43-35	8/7/21	35	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	<49.9	<49.9	<49.9	**1,970**
SB-43-40	8/7/21	40	**0.00351**	**0.00538 B**	**0.0034**	**0.00415**	**0.0164**	<49.8	<49.8	<49.8	<49.8	**391**
SB-43-45	8/7/21	45	<0.00200	**0.000502 J B**	<0.00200	<0.00400	**0.00107 J**	<49.9	<49.9	<49.9	<49.9	**660**
SB-43-50	8/18/21	50	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	**2,000**
SB-43-55	8/18/21	55	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	**96.0**
SB-44-2	8/6/21	2	<0.00202	**0.000781 J**	<0.00202	<0.00403	<0.00403	<50	<50	<50	<50	**77.8**
SB-44-4	8/6/21	4	**0.00404**	**0.00168 J**	**0.00452**	**0.0234**	**0.0336**	<49.9	<49.9	<49.9	<49.9	**59.9**
SB-44-8	8/6/21	8	<0.00200	**0.000852 J**	<0.00200	<0.00400	**0.00169 J**	<49.8	<49.8	<49.8	<49.8	**4,560**
SB-44-25	8/6/21	25	**0.00856**	**0.00154 J**	**0.00669**	**0.00989**	**0.0267**	<49.9	<49.9	<49.9	<49.9	**69.9**
SB-44-30	8/6/21	30	**0.000860 J**	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	**96.6**
Battery release area. Includes RP number: 1RP-2281												
TP-1-2	7/6/2017	2	-	-	-	-	-	-	-	-	-	<30
TP1-10	7/6/2017	10	-	-	-	-	-	-	-	-	-	<30
TP-2-2	7/6/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-2-10	7/6/2017	10	-	-	-	-	-	-	-	-	-	**1,100**
TP-3-2	7/6/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-3-10	7/6/2017	10	-	-	-	-	-	-	-	-	-	**720**
TP-4-2	7/6/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-4-10	7/6/2017	10	-	-	-	-	-	-	-	-	-	**800**

Released to Imaging: 5/2/2022 3:32:26 PM
Received by OCD: 2/28/2022 3:03:33 PM

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
TP-5-2	7/7/2017	2	-	-	-	-	-	-	-	-	-	**48**
TP-5-10	7/7/2017	10	-	-	-	-	-	-	-	-	-	**1,100**
TP-6-2	7/7/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-6-10	7/7/2017	10	-	-	-	-	-	-	-	-	-	**360**
TP-7-2	7/7/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-7-10	7/7/2017	10	-	-	-	-	-	-	-	-	-	**4,600**
TP-8-2	7/7/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-8-10	7/7/2017	10	-	-	-	-	-	-	-	-	-	**2,700**
TP-9-2	7/7/2017	2	-	-	-	-	-	-	-	-	-	**32**
TP-9-10	7/7/2017	10	-	-	-	-	-	-	-	-	-	**470**
TP-10-2	7/7/2017	2	-	-	-	-	-	-	-	-	-	**81**
TP-10-10	7/7/2017	10	-	-	-	-	-	-	-	-	-	**2,400**
TP-11-2	7/7/2017	2	-	-	-	-	-	-	-	-	-	**150**
TP-11-10	7/7/2017	10	-	-	-	-	-	-	-	-	-	**910**
TP-12-2	7/7/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-12-10	7/7/2017	10	-	-	-	-	-	-	-	-	-	**2,800**
TP-13-2	7/7/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-13-10	7/7/2017	10	-	-	-	-	-	-	-	-	-	**350**
TP-14-2	7/7/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-14-10	7/7/2017	10	-	-	-	-	-	-	-	-	-	**350**
Stockpile	7/7/2017	-	-	-	-	-	-	-	-	-	-	**4,900**
Stockpile	7/7/2017	-	-	-	-	-	-	-	-	-	-	**260**
TP-15-2	7/31/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-15-10	7/31/2017	10	-	-	-	-	-	-	-	-	-	<30
TP-16-2	7/31/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-16-10	7/31/2017	10	-	-	-	-	-	-	-	-	-	**36**
TP-17-2	7/31/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-17-10	7/31/2017	10	-	-	-	-	-	-	-	-	-	<30
TP-18-2	7/31/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-18-10	7/31/2017	10	-	-	-	-	-	-	-	-	-	**110**
TP-19-2	7/31/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-19-10	7/31/2017	10	-	-	-	-	-	-	-	-	-	<30
TP-20	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*

Released to Imaging: 5/2/2022 3:32:26 PM
Received by OCD: 2/28/2022 3:03:33 PM

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
TP-20	7/31/2017	10	-	-	-	-	-	-	-	-	-	380*
TP-21	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-21	7/31/2017	10	-	-	-	-	-	-	-	-	-	380*
TP-22	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-22	7/31/2017	10	-	-	-	-	-	-	-	-	-	832*
TP-23	7/31/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-23	7/31/2017	10	-	-	-	-	-	-	-	-	-	3,272*
TP-24	8/1/2017	2	-	-	-	-	-	-	-	-	-	832*
TP-24	8/1/2017	10	-	-	-	-	-	-	-	-	-	5,784*
TP-28	8/1/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-28	8/1/2017	10	-	-	-	-	-	-	-	-	-	600*
TP-29-2	8/2/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-29-10	8/2/2017	10	-	-	-	-	-	-	-	-	-	**290**
TP-30-2	8/2/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-30-10	8/2/2017	10	-	-	-	-	-	-	-	-	-	**210**
TP-31	8/2/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-31	8/2/2017	10	-	-	-	-	-	-	-	-	-	1,308*
TP-32	8/2/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-32	8/2/2017	10	-	-	-	-	-	-	-	-	-	896*
TP-33	8/2/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-33	8/2/2017	10	-	-	-	-	-	-	-	-	-	6,264*
TP-34	8/2/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-34	8/2/2017	10	-	-	-	-	-	-	-	-	-	600*
TP-35	8/2/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-35	8/2/2017	10	-	-	-	-	-	-	-	-	-	2,052*
TP-36-2	8/2/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-36-10	8/2/2017	10	-	-	-	-	-	-	-	-	-	**40**
TP-37	8/2/2017	10	-	-	-	-	-	-	-	-	-	340*
TP-38-2	8/2/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-38-10	8/2/2017	10	-	-	-	-	-	-	-	-	-	**33**
TP-39	8/3/2017	10	-	-	-	-	-	-	-	-	-	1,200*
TP-40-14	8/3/2017	14	-	-	-	-	-	-	-	-	-	**1,100**

Released to Imaging: 5/2/2022 3:32:26 PM
Received by OCD: 2/28/2022 3:03:33 PM

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
TP-40-19	8/7/2017	19	-	-	-	-	-	-	-	-	-	**2,400**
TP-41-14	8/3/2017	14	-	-	-	-	-	-	-	-	-	**2,300**
TP-42-14	8/3/2017	14	-	-	-	-	-	-	-	-	-	**320**
TP-43-2	8/3/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-43-10	8/3/2017	10	-	-	-	-	-	-	-	-	-	**310**
TP-44-2	8/3/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-44-10	8/3/2017	10	-	-	-	-	-	-	-	-	-	<30
TP-45	8/3/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-46-19	8/7/2017	19	-	-	-	-	-	-	-	-	-	**5,900**
TP-47-18	8/7/2017	18	-	-	-	-	-	-	-	-	-	**4,600**
TP-48-19	8/7/2017	19	-	-	-	-	-	-	-	-	-	**2,200**
TP-25-4	8/7/2017	4	-	-	-	-	-	-	-	-	-	<30
TP-25-12	8/7/2017	12	-	-	-	-	-	-	-	-	-	<30
TP-26-4	8/7/2017	4	-	-	-	-	-	-	-	-	-	<30
TP-26-12	8/7/2017	12	-	-	-	-	-	-	-	-	-	<30
TP-27-4	8/7/2017	4	-	-	-	-	-	-	-	-	-	**50**
TP-27-12	8/7/2017	12	-	-	-	-	-	-	-	-	-	**330**
MW-1-32	9/12/2017	32	-	-	-	-	-	-	-	-	-	**1,200**
MW-2-20	9/12/2017	40	-	-	-	-	-	-	-	-	-	<30
MW-3-35	9/13/2017	35	-	-	-	-	-	-	-	-	-	**1,300**
MW-3-40	9/13/2017	40	-	-	-	-	-	-	-	-	-	**91**
MW-3-45	9/13/2017	45	-	-	-	-	-	-	-	-	-	**780**
MW-4-45	9/13/2017	45	-	-	-	-	-	-	-	-	-	**1,200**
BH-40-30	9/13/2017	30	-	-	-	-	-	-	-	-	-	**1,500**
BH-41-27	9/13/2017	27	-	-	-	-	-	-	-	-	-	**2,300**
TP-49	9/19/2017	2	-	-	-	-	-	-	-	-	-	ND*
TP-49	9/19/2017	10	-	-	-	-	-	-	-	-	-	1,308*
TP-49	9/19/2017	15	-	-	-	-	-	-	-	-	-	968*
TP-49	9/19/2017	20	-	-	-	-	-	-	-	-	-	4,180*
TP-50	9/19/2017	10	-	-	-	-	-	-	-	-	-	1,764*
TP-50	9/19/2017	20	-	-	-	-	-	-	-	-	-	6,224*
TP-51	9/19/2017	10	-	-	-	-	-	-	-	-	-	3,860*

Released to Imaging: 5/2/2022 3:32:26 PM
Received by OCD: 2/28/2022 3:03:33 PM

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
TP-51	9/19/2017	20	-	-	-	-	-	-	-	-	-	7,320*
TP-52-2	9/19/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-52-10	9/19/2017	10	-	-	-	-	-	-	-	-	-	**220**
TP-53	9/19/2017	10	-	-	-	-	-	-	-	-	-	2,400*
TP-54-2	9/19/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-55	9/19/2017	10	-	-	-	-	-	-	-	-	-	504*
TP-55	9/19/2017	20	-	-	-	-	-	-	-	-	-	5,304*
TP-56	9/19/2017	10	-	-	-	-	-	-	-	-	-	2,052*
TP-57	9/19/2017	10	-	-	-	-	-	-	-	-	-	7,956*
TP-58	9/19/2017	10	-	-	-	-	-	-	-	-	-	11,288*
TP-24-10	9/19/2017	10	-	-	-	-	-	-	-	-	-	**420**
TP-59-2	9/20/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-59-10	9/20/2017	10	-	-	-	-	-	-	-	-	-	**13,000**
TP-60-2	9/20/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-60-10	9/20/2017	10	-	-	-	-	-	-	-	-	-	**940**
TP-61-2	9/20/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-61-10	9/20/2017	10	-	-	-	-	-	-	-	-	-	**500**
TP-62-2	9/20/2017	2	-	-	-	-	-	-	-	-	-	**430**
TP-62-10	9/20/2017	10	-	-	-	-	-	-	-	-	-	**240**
TP-63-2	9/20/2017	2	-	-	-	-	-	-	-	-	-	<30
TP-63-10	9/20/2017	10	-	-	-	-	-	-	-	-	-	**42**
SB-18-2	8/11/21	2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	**18.0 J**	<49.9	**18.0 J**	**97.9**
SB-18-4	8/11/21	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	**20.3 J**	<49.8	**20.3 J**	**75.9**
SB-18-30	8/11/21	30	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	**18.6 J**	<50.0	**18.6 J**	**7,270**
SB-18-55	8/11/21	55	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	**16.5 J**	<50.0	**16.5 J**	**825**
SB-18-60	8/11/21	60	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	**15.7 J**	<49.9	**15.7 J**	**741**
SB-19-2	8/11/21	2	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.9	<49.9	<49.9	<49.9	**123**
SB-19-4	8/11/21	4	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.8	**16.3 J**	<49.8	**16.3 J**	**129**
SB-19-20	8/11/21	20	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	**1,250**

Released to Imaging: 5/2/2022 3:32:26 PM
Received by OCD: 2/28/2022 3:03:33 PM

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
SB-19-45	8/11/21	45	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.8	**20.2 J**	<49.8	**20.2 J**	**172**
SB-19-50	8/11/21	50	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.9	**18.5 J**	<49.9	**18.5 J**	**53.7**
SB-20-2	7/27/21	2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	**11.9**
SB-20-4	7/27/21	4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**15.4 J**	<49.9	<49.9	**15.4 J B**	**21.1**
SB-20-10	7/27/21	10	**0.000507 J**	**0.00117 J**	**0.000736 J**	<0.00402	**0.00320 J**	<50.0	<50.0	<50.0	<50.0	**165**
SB-20-15	7/27/21	15	**0.000505 J**	<0.00200	**0.00114 J**	<0.00401	**0.00261 J**	<50.0	<50.0	<50.0	<50.0	**2,400**
SB-21-2	7/27/21	2	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	**24.2**
SB-21-4	7/27/21	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	**157**
SB-21-10	7/27/21	10	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	**7,080**
SB-21-20	7/27/21	20	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**25.3 J**	<49.9	<49.9	**25.3 J**	**4,850**
SB-21A-2	8/11/21	2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	**778**
SB-21A-4	8/11/21	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	**692**
SB-21A-15	8/11/21	15	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	**15.8 J**	<49.9	**15.8 J**	**7,080 F1**
SB-21A-35	8/11/21	35	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	**16.3 J**	<50.0	**16.3 J**	**9,180**
SB-21A-55	8/11/21	55	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	**15.4 J**	<49.8	**15.4 J**	**272**
SB-21A-60	8/11/21	60	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	**15.7 J**	<50.0	**15.7 J**	**77.8**
SB-21B-2	8/12/21	2	**0.00244**	<0.00198	<0.00198	<0.00397	**0.00314 J**	<49.9	<49.9	<49.9	<49.9	**21.9**
SB-21B-4	8/12/21	4	<0.00200	<0.00200	**0.00147 J**	<0.00400	**0.00147 J**	<50.0	<50.0	<50.0	<50.0	**20.9**
SB-21B-6	8/12/21	6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	**1,790**
SB-21B-15	8/12/21	15	**0.000636 J**	<0.00200	**0.000761 J**	<0.00399	**0.00140 J**	<50.0	<50.0	<50.0	<50.0	**144**
SB-21B-20	8/12/21	20	**0.00107 J**	<0.00200	**0.000844 J**	<0.00399	**0.00191 J**	<50.0	<50.0	<50.0	<50.0	**189**
SB-21C-2	8/12/21	2	<0.00200 F2 F1	<0.00200 F2 F1	<0.00200 F2 F1	F2 F1	<0.00399 F2 F1	<50.0	<50.0	<50.0	<50.0	**46.2**
SB-21C-4	8/12/21	4	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.9	<49.9	<49.9	<49.9	**34.8**

Released to Imaging: 5/2/2022 3:32:26 PM
Received by OCD: 2/28/2022 3:03:33 PM

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
SB-21C-6	8/12/21	6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8	<49.8	<49.8	<49.8	**105**
SB-21C-15	8/12/21	15	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.9	<49.9	<49.9	<49.9	**104**
SB-21C-20	8/12/21	20	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	**84.9**
SB-22-2	8/11/21	2	**0.000529 J**	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	**323**
SB-22-4	8/11/21	4	<0.00198	**0.000463 J**	<0.00198	<0.00396	<0.00396	<50.0	<50.0	<50.0	<50.0	**590**
SB-22-15	8/11/21	15	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<50.0	<50.0	<50.0	<50.0	**3,830**
SB-22-30	8/11/21	30	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	**1,820**
SB-22-45	8/11/21	45	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	**185**
SB-22-50	8/11/21	50	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	**16.8 J**	<49.8	**16.8 J**	**39.6**
SB-23-2	7/27/21	2	<0.00198	<0.00198	**0.000637 J**	<0.00396	<0.00396	<50.0	**21.1 J B**	<50.0	**21.1 J B**	**9.79**
SB-23-4	7/27/21	4	<0.00200	<0.00200	**0.000911 J**	<0.00401	<0.00401	<49.9	**16.1 J B**	<49.9	**16.1 J B**	**14.1**
SB-23-10	7/27/21	10	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	**11.4**
SB-24-2	8/10/21	2	**0.000449 J**	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	**23.6**
SB-24-4	8/10/21	4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	**22.8**
SB-24-15	8/10/21	15	**0.00446**	**0.0205**	**0.00303**	**0.0488**	**0.0768**	<49.8	**15.1 J**	<49.8	**15.1 J**	**1,810**
SB-24-25	8/10/21	25	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	**19.7 J**	**19.7 J**	**144**
SB-24-30	8/10/21	30	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	<50.0	<50.0	<50.0	**99.0**
SB-25-2	8/10/21	2	<0.00199	**0.00106 J**	<0.00199	<0.00398	**0.00153 J**	<49.9	<49.9	<49.9	<49.9	**43.6**
SB-25-4	8/10/21	4	<0.00202	<0.00202	<0.00202	**0.00163 J**	**0.00163 J**	<49.8	<49.8	<49.8	<49.8	**33.6**
SB-25-15	8/10/21	15	<0.00200	**0.00109 J**	<0.00200	<0.00401	**0.00163 J**	<49.9	<49.9	<49.9	<49.9	**1,170**
SB-25-30	8/10/21	30	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.8	<49.8	<49.8	<49.8	**2,330**
SB-25-40	8/10/21	40	**0.000393 J**	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	<49.9	<49.9	<49.9	**90.3**
SB-25-45	8/10/21	45	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	<49.8	<49.8	<49.8	**63.7**

Released to Imaging: 5/2/2022 3:32:26 PM
Received by OCD: 2/28/2022 3:03:33 PM

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
SB-26-2	8/10/21	2	**0.00158 J *-*1**	<0.00200	**0.000594 J**	<0.00399	**0.00217 J *-*1**	<50.0	<50.0	<50.0	<50.0	**103**
SB-26-4	8/10/21	4	<0.00201 *-*1	<0.00201	<0.00201	<0.00402	<0.00402 *-*1	<49.8	<49.8	<49.8	<49.8	**105**
SB-26-15	8/10/21	15	**0.000784 J *-*1**	<0.00200	<0.00200	<0.00399	**0.00118 J *-*1**	<50.0	<50.0	<50.0	<50.0	**1,920**
SB-26-25	8/10/21	25	<0.00200 *-*1	<0.00200	<0.00200	<0.00401	<0.00401 *-*1	<50.0	<50.0	<50.0	<50.0	**529**
SB-26-30	8/10/21	30	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<50.0	**15.1 J**	<50.0	**15.1 J**	**219**
SB-27-2	7/26/21	2	<0.00202 F1	<0.00202 F2 F1	**0.000600 J F2 F1**	<0.00403 F1	<0.00403 F1	<49.9	<49.9	<49.9	<49.9	**6.84**
SB-27-4	7/26/21	4	**0.000492 J**	**0.000749 J**	<0.00200	**0.00305 J**	**0.00429**	<49.9	<49.9	<49.9	<49.9	**9.47**
SB-27-10	7/26/21	10	<0.00199	<0.00199	**0.00134 J**	<0.00398	**0.00180 J**	<49.9	**16.0 J B**	<49.9	**16.0 J B**	**779**
SB-27-15	7/26/21	15	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	**138**
SB-27A-2	8/12/21	2	**0.00130 J**	<0.00200	<0.00200	<0.00400	**0.00130 J**	<50.0	<50.0	<50.0	<50.0	**22.2**
SB-27A-4	8/12/21	4	**0.00244**	<0.00199	<0.00199	<0.00398	**0.00336 J**	<50.0	<50.0	<50.0	<50.0	**22.4**
SB-27A-10	8/12/21	10	**0.00282**	<0.00201	<0.00201	<0.00402	**0.00282 J**	<49.9	<49.9	<49.9	<49.9	**90.0**
SB-27A-15	8/12/21	15	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	**231**
SB-27A-20	8/12/21	20	<0.00199	<0.00199	<0.00199	**0.00203 J**	**0.00203 J**	<49.8	<49.8	<49.8	<49.8	**224**
SB-28-2	8/10/21	2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	**356**
SB-28-4	8/10/21	4	<0.00199	**0.000535 J**	<0.00199	**0.00102 J**	**0.00156 J**	<50.0	<50.0	<50.0	<50.0	**357**
SB-28-20	8/10/21	20	<0.00200	**0.00100 J**	<0.00200	<0.00401	**0.00139 J**	<49.9	<49.9	<49.9	<49.9	**3,310**
SB-28-25	8/10/21	25	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8	<49.8	<49.8	<49.8	**2,440**
SB-28-40	8/10/21	40	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.9	<49.9	<49.9	<49.9	**580**
SB-28-45	8/10/21	45	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.8	<49.8	<49.8	<49.8	**308**
SB-29-2	8/10/21	2	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	<49.9	<49.9	<49.9	**8.66**
SB-29-4	8/10/21	4	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	<49.9	<49.9	<49.9	**9.50**
SB-29-10	8/10/21	10	<0.00202	**0.000634 J**	<0.00202	<0.00403	**0.00109 J**	<49.8	<49.8	<49.8	<49.8	**630 F1**

Released to Imaging: 5/2/2022 3:32:26 PM
Received by OCD: 2/28/2022 3:03:33 PM

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
SB-29-15	8/10/21	15	**0.00110 J**	<0.00200	<0.00200	<0.00399	**0.00110 J**	<49.9	<49.9	<49.9	<49.9	**129**
SB-29-25	8/10/21	25	<0.00201	<0.00201	**0.00123 J**	<0.00402	**0.00167 J**	<50.0	<50.0	<50.0	<50.0	**211**
SB-30-2	8/9/21	2	**0.00141 J *-*1**	<0.00202	<0.00202	<0.00403	**0.00208 J *-*1**	<50.0	<50.0	<50.0	<50.0	**99.0**
SB-30-4	8/9/21	4	<0.00200 *-*1	<0.00200	<0.00200	<0.00399	<0.00399 *-*1	<49.9	<49.9	<49.9	<49.9	**81.9**
SB-30-8	8/9/21	8	**0.00178 J *-*1**	<0.00199	<0.00199	**0.00146 J**	**0.00324 J *-*1**	<49.9	<49.9	<49.9	<49.9	**2,560**
SB-30-25	8/9/21	25	<0.00200 *-*1	<0.00200	<0.00200	<0.00400	<0.00400 *-*1	<49.8	<49.8	<49.8	<49.8	**453**
SB-30-30	8/9/21	30	<0.00199 *-*1	<0.00199	<0.00199	<0.00398	<0.00398 *-*1	<49.9	<49.9	<49.9	<49.9	**354**
SB-31-2	8/9/21	2	**0.000397 J *-*1**	**0.00135 J**	<0.00199	**0.00104 J**	**0.00279 J *-*1**	<49.8	**15.5 J**	<49.8	**15.5 J**	**134**
SB-31-4	8/9/21	4	<0.00200 *-*1	**0.0392**	<0.00200	<0.00400	**0.0392 *-*1**	<49.9	<49.9	<49.9	<49.9	**58.2**
SB-31-15	8/9/21	15	<0.00202 *-*1	<0.00202	<0.00202	<0.00404	<0.00404 *-*1	<49.9	<49.9	<49.9	<49.9	**5,640**
SB-31-25	8/9/21	25	<0.00199 *-*1	<0.00199	<0.00199	<0.00398	<0.00398 *-*1	<49.8	**15.1 J**	<49.8	**15.1 J**	**286**
SB-31-30	8/9/21	30	**0.00177 J *-*1**	<0.00201	<0.00201	**0.00117 J**	**0.00294 J *-*1**	<50.0	<50.0	<50.0	<50.0	**402**
SB-32-2	7/27/21	2	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	<50.0	<50.0	<50.0	**9.39**
SB-32-4	7/27/21	4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	**11.0**
SB-32-10	7/27/21	10	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	**91.3**
SB-32-15	7/27/21	15	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	**224**
SB-33-2	8/8/21	2	**0.000474 J *-*1**	<0.00199	<0.00199	<0.00398	<0.00398 *-*1	<50.0	<50.0	<50.0	<50.0	**32.2**
SB-33-4	8/8/21	4	<0.00198 *-*1	<0.00198	<0.00198	**0.000185 J**	**0.00185 J *-*1**	<49.9	<49.9	<49.9	<49.9	**30.4**
SB-33-20	8/8/21	20	<0.00198 *-*1	<0.00198	<0.00198	<0.00396	<0.00396 *-*1	<49.8	<49.8	<49.8	<49.8	**2,440**
SB-33-55	8/9/21	55	<0.00200 *-*1	**0.000459 J**	<0.00200	<0.00400	<0.00400 *-*1	<49.9	<49.9	<49.9	<49.9	**895**
SB-33-60	8/9/21	60	<0.00199 *-*1	<0.00199	<0.00199	<0.00398	<0.00398 *-*1	<49.8	<49.8	<49.8	<49.8	**346**
SB-33-65	8/9/21	65	<0.00200 *-*1	<0.00200	<0.00200	<0.00399	<0.00399 *-*1	<49.9	<49.9	<49.9	<49.9	**548**
SB-34-2	8/8/21	2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0 *1	<50.0	<50.0	<50.0	**21.8**

Released to Imaging: 5/2/2022 3:32:26 PM
Received by OCD: 2/28/2022 3:03:33 PM

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
SB-34-4	8/8/21	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0 *1	<50.0	<50.0	<50.0	**23.8**
SB-34-6	8/8/21	6	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.8 *1	<49.8	<49.8	<49.8	**260**
SB-34-15	8/8/21	15	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<50.0 *1	**16.2 J**	<50.0	**16.2 J**	**166**
SB-34-25	8/8/21	25	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	**58.5**
SB-35-2	8/8/21	2	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.8	<49.8	<49.8	<49.8	**109**
SB-35-4	8/8/21	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9 *1	<49.9	<49.9	<49.9	**966**
SB-35-25	8/8/21	25	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.9 *1	<49.9	<49.9	<49.9	**860**
SB-35-40	8/8/21	40	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8 *1	<49.8	<49.8	<49.8	**129**
SB-35-45	8/8/21	45	<0.00198	<0.00198	<0.00198	<0.00198	<0.00396	<49.9 *1	**30.1 J**	<49.9	**30.1 J**	**639**
SB-35-55	8/17/21	55	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	**2,320**
SB-35-75	8/17/21	75	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	**64.0**
SB-35-80	8/18/21	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	**32.0**
SB-36-2	8/8/21	2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	**35.3**
SB-36-4	8/8/21	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	**31.3**
SB-36-15	8/8/21	15	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.9	<49.9	<49.9	<49.9	**2,210**
SB-36-50	8/8/21	50	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8	<49.8	**19.2 J**	**19.2 J**	**2,060**
SB-36-60	8/8/21	60	<0.00200	**0.000586 J**	<0.00200	<0.00400	<0.00400	<49.9	<49.9	<49.9	<49.9	**91.2**
SB-36-65	8/8/21	65	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	**26.3 J**	<49.9	**26.3 J**	**1,620**
SB-36-75	8/17/21	75	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	**48.0**
SB-36-80	8/17/21	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	**48.0**
SB-37-2	8/7/21	2	**0.000401 J**	<0.00198	<0.00198	<0.00396	**0.00102 J**	<49.8	<49.8	<49.8	<49.8	**21.8**
SB-37-4	8/7/21	4	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<50.0	<50.0	<50.0	<50.0	**1,480**
SB-37-30	8/7/21	30	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	**986**
SB-37-45	8/7/21	45	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.0	<50.0	<50.0	<50.0	**812**

Released to Imaging: 5/2/2022 3:32:26 PM
Received by OCD: 2/28/2022 3:03:33 PM

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
SB-37-60	8/8/21	60	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	**273**
SB-37-65	8/8/21	65	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	**147**
SB-38-2	8/7/21	2	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	**15.2**
SB-38-4	8/7/21	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	**72.4**
SB-38-20	8/7/21	20	<0.00200	<0.00200	<0.00200	**0.00201 J**	**0.00201 J**	<49.9	<49.9	<49.9	<49.9	**2,680**
SB-38-40	8/7/21	40	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8	<49.8	<49.8	<49.8	**54.6**
SB-38-60	8/7/21	60	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	**412**
SB-38-65	8/7/21	65	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	**64.5**
SB-39-2	7/26/21	2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	**9.36**
SB-39-4	7/26/21	4	<0.00199	<0.00199	**0.000622 J**	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	**7.86**
SB-39-10	7/26/21	10	<0.00199	<0.00199	**0.000712 J**	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	**7.81**
SB-39-15	7/26/21	15	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	**12.9**
SB-40-2	7/26/21	2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	**12.3**
SB-40-4	7/26/21	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	**14.9**
SB-40-10	7/26/21	10	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.0	<50.0	<50.0	<50.0	**649**
SB-40-15	7/26/21	15	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.9	<49.9	<49.9	<49.9	**19.0**
SB-40A-2	8/12/21	2	<0.00202	<0.00202	**0.00132 J**	<0.00404	**0.00132 J**	<49.9	<49.9	<49.9	<49.9	**22.1**
SB-40A-4	8/12/21	4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.8	<49.8	<49.8	<49.8	**22.9**
SB-40A-10	8/12/21	10	**0.000527 J**	<0.00201	**0.00111 J**	<0.00402	**0.00224 J**	<49.9	<49.9	<49.9	<49.9	**120**
SB-40A-20	8/12/21	20	**0.00161 J**	**0.00287**	<0.00201	**0.00215 J**	**0.00663**	<49.9	<49.9	<49.9	<49.9	**398**
SB-40A-25	8/12/21	25	**0.00427**	<0.00200	<0.00200	<0.00399	**0.00427**	<49.8	<49.8	<49.8	<49.8	**148**
SB-41-2	7/27/21	2	<0.00201	<0.00201	**0.000585 J**	<0.00402	<0.00402	**16.0 J**	**15.8 J B**	<50.0	**31.8 J B**	**7.94**
SB-41-4	7/27/21	4	<0.00199	<0.00199	**0.00141 J**	<0.00398	**0.00141 J**	<49.9	<49.9	<49.9	<49.9	**9.68**

Released to Imaging: 5/2/2022 3:32:26 PM
Received by OCD: 2/28/2022 3:03:33 PM

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
SB-41-10	7/27/21	10	<0.00199	**0.000585 J**	**0.00104 J**	<0.00398	**0.00205 J**	<50.0	<50.0	<50.0	<50.0	**57.6**
SB-41-15	7/27/21	15	<0.00201	<0.00201	**0.00119 J**	<0.00402	**0.00174 J**	<50.0	<50.0	<50.0	<50.0	**28.5**
SB-42-2	7/27/21	2	<0.00201	<0.00201	**0.00131 J**	<0.00402	**0.00167 J**	<49.8	<49.8	<49.8	<49.8	**9.60**
SB-42-4	7/27/21	4	<0.00200	<0.00200	**0.000700 J**	<0.00399	<0.00399	**16.8 J**	<49.7	<49.7	**16.8 J B**	**8.25**
SB-42-10	7/27/21	10	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	**112**
SB-42-15	7/27/21	15	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<50.0	**20.2 J B**	<50.0	**20.2 J B**	**60.3 F1**
Surrounding site locations												
MW-10-55 (SB-10)	8/7/2018	55	-	-	-	-	-	-	-	-	-	**1,300**
MW-10-60 (SB-10)	8/8/2018	60	-	-	-	-	-	-	-	-	-	**35**
MW-10-65 (SB-10)	8/8/2018	65	-	-	-	-	-	-	-	-	-	< 30
MW-11-50 (SB-11)	8/8/2018	50	-	-	-	-	-	-	-	-	-	**34**
MW-11-65 (SB-11)	8/8/2018	65	-	-	-	-	-	-	-	-	-	**430**
MW-5-20 (SB-5)	8/9/2018	20	-	-	-	-	-	-	-	-	-	**45**
MW-6-50 (SB-6)	8/9/2018	50	-	-	-	-	-	-	-	-	-	**33**
MW-6-60 (SB-6)	8/9/2018	60	-	-	-	-	-	-	-	-	-	< 30
MW-9-50 (SB-9)	8/9/2018	50	-	-	-	-	-	-	-	-	-	**32**
MW-9-60 (SB-9)	8/9/2018	60	-	-	-	-	-	-	-	-	-	< 30
MW-9-70 (SB-9)	8/9/2018	70	-	-	-	-	-	-	-	-	-	< 30
MW-7-40 (SB-7)	8/10/2018	40	-	-	-	-	-	-	-	-	-	< 30
MW-7-50 (SB-7)	8/10/2018	50	-	-	-	-	-	-	-	-	-	**32**
MW-8-50 (SB-8)	8/10/2018	50	-	-	-	-	-	-	-	-	-	< 30
MW-8-60 (SB-8)	8/10/2018	60	-	-	-	-	-	-	-	-	-	**91**
MW-8-65 (SB-8)	8/10/2018	65	-	-	-	-	-	-	-	-	-	100

Released to Imaging: 5/2/2022 3:32:26 PM
Received by OCD: 2/28/2022 3:03:33 PM

Table 1
Summary of Soil Analytical Data
Flamenco Federal #1
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/M	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg

*Indicates Field Data

Notes:

1. Values reported in mg/kg
2. < = Value Less than Reporting Limit (RL)
3. Bold Indicates Analyte Detected
4 BTEX analyses by EPA Method SW 8021B.
5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil
7. Yellow shaded cells indicate analytical samples that exceed the NMOC 19.15.29.12 Table 1 Closure Criteria for the site.
8. J - the target analytes was positively identified below the quantitation limit and above the detection limit.

Values Exceed Table 1 Closure Criteria

Values Exceed Table 1 Closure Criteria in the first 4 feet only

~~B-BH-2~~ Sample Point Excavated

Attachment A
Initial C-141s for 1RP-2281, 1RP-2784, 1RP-2790, 1RP-4800, and 1RP-4801

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
AUG 24 2009
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

☒ Initial Report ☐ Final Report

Name of Company	OGRID Number	Contact
Yates Petroleum Corporation	25575	Robert Asher
Address		Telephone No.
104 S. 4TH Street		505-748-1471
Facility Name	API Number	Facility Type
Flamenco Federal #1	30-025-31076	SWD Battery

Surface Owner	Mineral Owner	Lease No.
Federal	Federal	NM-84890

API # 30.025.31076.00.00

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	7	22S	32E	1650	South	660	West	Lea

Latitude 32.40333 **Longitude** 103.72034

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Oil & Produced Water	100 B/O & 600 B/PW	0 B/O & 0 B/PW
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Gun Barrel	8/11/2009, PM	8/11/2009, AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson/NMOCD Hobbs (Voice mail & e-mail)	
By Whom? Robert Asher/YPC Environmental	Date and Hour 8/12/2009, AM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

WATER @ 280'

Describe Cause of Problem and Remedial Action Taken.*
Lightning stuck 750 barrel fiberglass gun barrel tank, causing release and fire that destroyed 4 other tanks on location. Fire department called and main water line shut.

Describe Area Affected and Cleanup Action Taken.*
An approximate area of 120' X 120'. Produced water released from gun barrel broke through bermed tank battery and released in area west of the battery off location. Backhoe equipment started removing damaged tanks/equipment; impacted soils were excavated and taken to an NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX to determine next course of action taken. **Depth to Ground Water: >100' (approx. 280', per New Mexico Office of the State Engineer), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD 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, NMOCD 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.

Signature:

Printed Name: Robert Asher

Title: Environmental Regulatory Agent

E-mail Address: boba@ypcnm.com

Date: Thursday, August 20, 2009 Phone: 505-748-4217

OIL CONSERVATION DIVISION

Approved by ~~District Supervisor~~ ENV ENGINEER: Geoff Leking

Approval Date: 08/24/09 Expiration Date: 10/26/09

Conditions of Approval: DELINEATE TO CLEAN TL. SUBMIT FINAL C-141 BY 1RP-09-09-2281

Attached ☐ 1RP-09-09-2281

* Attach Additional Sheets If Necessary

SAMPLING MUST INCLUDE CHLORIDES.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-2281
Facility ID	
Application ID	

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?	>100 (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.
- ☑ Field data
- ☑ Data table of soil contaminant concentration data
- ☑ Depth to water determination
- ☑ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☑ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☑ Topographic/Aerial maps
- ☑ Laboratory data including chain of custody

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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-2281
Facility ID	
Application ID	

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: James F. Kennedy Title: Environmental Specialist

Signature: James F Kennedy Date: 2/21/2022

email: James_Kennedy@eogresources.com Telephone: 432-848-9146

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-2281
Facility ID	
Application ID	

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.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: James F. Kennedy Title: Environmental Specialist

Signature: James F Kennedy Date: 2/21/2022

email: James_Kennedy@eogresources.com Telephone: 432-848-9146

OCD Only

Received by: _____ Date: _____

☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Jennifer Nobui Date: 05/02/2022

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

HOBBS OCD
JUL 26 2011
RECEIVED

State of New Mexico
Energy Minerals and Natural Resources

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

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

☒ Initial Report ☐ Final Report

Name of Company	OGRID Number	Contact
Yates Petroleum Corporation	25575	Robert Asher
Address		Telephone No.
104 S. 4TH Street		575-748-1471
Facility Name	API Number	Facility Type
Flamenco Federal #1	30-025-31076	SWD Battery

Surface Owner	Mineral Owner	Lease No.
Federal	Federal	NM-84890

LOCATION OF RELEASE API# 30-025-31076

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	7	22S	32E	1650	South	660	West	Lea

Latitude 32.40333 **Longitude** 103.72034

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Produced Water	150 B/PW	100 B/PW
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Water line	7/12/2011, AM	7/12/2011, AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Maxey Brown/NMOCD II	
By Whom? Robert Asher/Yates Petroleum Corporation	Date and Hour 7/13/2011; PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Water line connection in tin horn failed, causing release. Vacuum truck called.

Describe Area Affected and Cleanup Action Taken.*
An approximate area of 45' X 45'. Vacuum truck picked up remaining produced water. Impacted soils being excavated and taken to an NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (Chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL a work plan will be submitted to the OCD. **Depth to Ground Water: >100' (approx. 280', Section 14, T22S-R32E, NMOSE and approx 200' per the ChevronTexaco trend map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD 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, NMOCD 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.

Signature:

Printed Name: Robert Asher

Title: Senior Environmental Regulatory Agent

E-mail Address: boba@yatespetroleum.com

Date: Friday, July 22, 2011 Phone: 575-748-4217

OIL CONSERVATION DIVISION

Accepted for Record Only

Approved by District Supervisor: 03/06/12

Approval Date: Expiration Date:

Conditions of Approval: IRP-3-12-2784

Attached ☐

* Attach Additional Sheets If Necessary

MAR 06 2012

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-2784
Facility ID	
Application ID	

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?	>100 (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

Draft

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.
- ☑ Field data
- ☑ Data table of soil contaminant concentration data
- ☑ Depth to water determination
- ☑ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☑ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☑ Topographic/Aerial maps
- ☑ Laboratory data including chain of custody

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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-2784
Facility ID	
Application ID	

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: James F. Kennedy Title: Environmental Specialist

Signature: James F Kennedy Date: 2/21/2022

email: James_Kennedy@eogresources.com Telephone: 432-848-9146

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-2284
Facility ID	
Application ID	

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.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: James F. Kennedy Title: Environmental Specialist

Signature: James F Kennedy Date: 2/21/2022

email: James_Kennedy@eogresources.com Telephone: 432-848-9146

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

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

HOBBS OCD
NOV 0 3 2011
RECEIVED

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

☒ Initial Report ☐ Final Report

Name of Company	OGRID Number	Contact
Yates Petroleum Corporation	25575	Robert Asher
Address		Telephone No.
104 S. 4TH Street		575-748-1471
Facility Name	API Number	Facility Type
Flamenco Federal #1	30-025-31076	SWD Battery

Surface Owner	Mineral Owner	Lease No.
Federal	Federal	NM-84890

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	7	22S	32E	1650	South	660	West	Lea

Latitude 32.40333 **Longitude** 103.72034

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Produced Water	275 B/PW	260 B/PW
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Water line	10/21/2011, AM	10/21/2011, AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Geoffrey Leking/NMOCD II	
By Whom? Robert Asher/Yates Petroleum Corporation	Date and Hour 10/24//2011; PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Water line connection in tin horn failed, causing release. Vacuum truck called.

Describe Area Affected and Cleanup Action Taken.*
Initial release amount was miscalculated when reported on 10/24/2011, correct amount released/recovered per this C-141 report. An approximate area of 60 X 75'. Vacuum truck picked up remaining produced water. Impacted soils being excavated and taken to an NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (Chlorides in soils for documentation). If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL a work plan will be submitted to the OCD. **Depth to Ground Water: >100' (approx. 280', Section 14, T22S-R32E, NMOSE and approx 200' per the ChevronTexaco trend map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD 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, NMOCD 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.

Signature:	OIL CONSERVATION DIVISION
	Accepted for Record Only
Printed Name: Robert Asher	Approved by District Supervisor: 3/30/12
Title: Senior Environmental Regulatory Agent	Approval Date: / Expiration Date:
E-mail Address: boba@yatespetroleum.com	Conditions of Approval: / Attached ☐
Date: Wednesday, November 02, 2011 Phone: 575-748-4217	1RP- 3-12-2790

* Attach Additional Sheets If Necessary

APR 0 2 2012

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-2790
Facility ID	
Application ID	

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?	>100 (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

Draft

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.
- ☑ Field data
- ☑ Data table of soil contaminant concentration data
- ☑ Depth to water determination
- ☑ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☑ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☑ Topographic/Aerial maps
- ☑ Laboratory data including chain of custody

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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-2790
Facility ID	
Application ID	

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: James F. Kennedy Title: Environmental Specialist

Signature: James F Kennedy Date: 2/21/2022

email: James_Kennedy@eogresources.com Telephone: 432-848-9146

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-2790
Facility ID	
Application ID	

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.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: James F. Kennedy Title: Environmental Specialist

Signature: James F Kennedy Date: 2/21/2022

email: James_Kennedy@eogresources.com Telephone: 432-848-9146

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

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

Rp #?

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

Initial

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	OGRID Number	Contact
Yates Petroleum Corporation	25575	Robert Asher
Address		Telephone No.
104 S. 4TH Street		575-748-1471
Facility Name	API Number	Facility Type
Flamenco Federal #1	30-025-31076	SWD Battery

Surface Owner	Mineral Owner	Lease No.
Federal	Federal	NM-84890

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	7	22S	32E	1650	South	660	West	Lea

Latitude 32.40333 **Longitude** 103.72034

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Produced Water	200 B/PW	0 B/PW
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Water line	6/12/2013, AM	6/12/2013, AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Geoffrey Leking/NMOCD II	
By Whom? Robert Asher/Yates Petroleum Corporation	Date and Hour 6/20/2013; PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

RECEIVED
By Olivia Yu at 8:47 am, Sep 06, 2017

Describe Cause of Problem and Remedial Action Taken.*
Water line connection at tin horn failed, causing release. Vacuum truck called.

Describe Area Affected and Cleanup Action Taken.*
An approximate area of 60 X 75'. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (Chlorides in soils for documentation). If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL a work plan will be submitted to the OCD. **Depth to Ground Water: >100' (approx. 280', Section 14, T22S-R32E, NMOSE and approx 200' per the ChevronTexaco trend map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0. Based on scope of work completed per the 10/18/2013 Work Plan (this release area was impacted by the 8/4/2013 release), Yates Petroleum Corporation requests closure.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD 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, NMOCD 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.

Signature:

Printed Name: Robert Asher

Title: NM Environmental Regulatory Supervisor

E-mail Address: boba@yatespetroleum.com

Date: Friday, January 31, 2014 Phone: 575-748-4217

OIL CONSERVATION DIVISION

Approved by

Approval Date: 9/6/2017 Expiration Date:

Conditions of Approval:
see attached directive

Attached ☑

* Attach Additional Sheets If Necessary

1RP-4800 nOY1724932244 pOY1724941406

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-4800
Facility ID	
Application ID	

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?	>100 (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

Draft

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.
- ☑ Field data
- ☑ Data table of soil contaminant concentration data
- ☑ Depth to water determination
- ☑ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☑ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☑ Topographic/Aerial maps
- ☑ Laboratory data including chain of custody

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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-4800
Facility ID	
Application ID	

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: James F. Kennedy Title: Environmental Specialist

Signature: James F Kennedy Date: 2/21/2022

email: James_Kennedy@eogresources.com Telephone: 432-848-9146

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-4800
Facility ID	
Application ID	

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.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: James F. Kennedy Title: Environmental Specialist

Signature: James F Kennedy Date: 2/21/2022

email: James_Kennedy@eogresources.com Telephone: 432-848-9146

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

RP 1?

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

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

Initial

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	OGRID Number	Contact
Yates Petroleum Corporation	25575	Robert Asher
Address		Telephone No.
104 S. 4TH Street		575-748-1471
Facility Name	API Number	Facility Type
Flamenco Federal #1	30-025-31076	SWD Battery

Surface Owner	Mineral Owner	Lease No.
Federal	Federal	NM-84890

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	7	22S	32E	1650	South	660	West	Lea

Latitude 32.40333 **Longitude** 103.72034

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Produced Water	600 B/PW	0 B/PW
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Water line	8/4/2013, AM	8/4/2013, AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Geoffrey Leking/NMOCD II	
By Whom? Robert Asher/Yates Petroleum Corporation	Date and Hour 8/5/2013; PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Water line connection at tin horn failed, causing release. Vacuum truck called.

RECEIVED
By Olivia Yu at 8:47 am, Sep 06, 2017

Describe Area Affected and Cleanup Action Taken.*
An approximate area of 60 X 75'. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (Chlorides in soils for documentation). If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL a work plan will be submitted. **Depth to Ground Water: >100' (approx. 280', Section 14, T22S-R32E, NMOSE and approx 200' per the ChevronTexaco trend map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0. Based on scope of work completed per the 10/18/2013 Work Plan, Yates Petroleum Corporation requests closure.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD 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, NMOCD 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.

Signature:	OIL CONSERVATION DIVISION
Printed Name: Robert Asher	Approved by
Title: NM Environmental Regulatory Supervisor	Approval Date: 9/6/2017 Expiration Date:
E-mail Address: boba@yatespetroleum.com	Conditions of Approval: see attached directive Attached ☑
Date: Friday, January 31, 2014 Phone: 575-748-4217	

* Attach Additional Sheets If Necessary

1RP-4801 nOY1724941773 pOY1724942051

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-4801
Facility ID	
Application ID	

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?	>100 (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

Draft

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.
- ☑ Field data
- ☑ Data table of soil contaminant concentration data
- ☑ Depth to water determination
- ☑ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☑ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☑ Topographic/Aerial maps
- ☑ Laboratory data including chain of custody

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	
District RP	1RP-4801
Facility ID	
Application ID	

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: James F. Kennedy Title: Environmental Specialist

Signature: James F Kennedy Date: 2/21/2022

email: James_Kennedy@eogresources.com Telephone: 432-848-9146

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	1RP-4801
Facility ID	
Application ID	

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.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: James F. Kennedy Title: Environmental Specialist

Signature: James F Kennedy Date: 2/21/2022

email: James_Kennedy@eogresources.com Telephone: 432-848-9146

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Attachment B
Site Characterization Documentation

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: MW-10
DATE COMPLETED: August 3, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	CI (ppm)	PID (ppm)
	SM-SILTY SAND, fine grained, red/brown, dry						<120	4.7
5	CALICHE	4.00					<120	2.8
							<120	1.4
							<120	1.8
10	SC-CLAYEY SAND, fine grained, brown, dry	10.00					<120	6.8
15	SANDSTONE, fine to medium grained, tan, dry	15.00					<120	75.1
20							<120	1.6
25	SILTY SANDSTONE, fine grained, brown, dry	25.00					<120	54.9
30			Cement-Bentonite Grout				<120	5.0
35							<120	4.3
40							<120	78.4
45							<120	2.7
50							<120	5.4
55							<120	6.4
60							<120	8.1
65	SANDSTONE, medium grained, gray/tan, dry	65.00					<120	21.3
70	SILTY SANDSTONE, fine to medium grained, brown/red, dry	70.00					<120	7.2

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: MW-10
DATE COMPLETED: August 3, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE Cl (ppm)	SAMPLE PID (ppm)
80	SANDSTONE, caliche powder, medium grained, white, dry	80.00					<120	11.1
85	CH-CLAY, fat, brown, dry	85.00					<120	3.0
90	SANDSTONE, fine to medium grained, tan/brown, dry	90.00					<120	0.4
95							<120	3.4
100							<120	4.1
105	END OF BOREHOLE @ 105.00ft BGS Boring was left open for 72 hours and then a water probe was used to determine the presence or absence of groundwater. No groundwater was detected and the boring was plugged.	105.00					<120	2.8
110								
115								
120								
125								
130								
135								
140								
145								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: MW-11
DATE COMPLETED: August 5, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE CI (ppm)	SAMPLE PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry						<120	6.4
							<120	0.8
5							<120	1.1
	CALICHE	6.00					<120	2.3
10	SM-SILTY SAND, fine grained, brown, dry	10.00					<120	0.7
15							<120	2.0
20							<120	1.3
25	CL-SANDY CLAY, fine grained, brown, dry	25.00					<120	0.8
30	SANDSTONE, fine to medium grained, tan, dry	30.00	Cement-Bentonite Grout				148	6.9
35	CH-CLAY, fat, brown, dry	35.00					<120	3.4
40							<120	2.1
45							<120	2.0
50							<120	1.7
55							<120	2.3
60							<120	1.3
65	SANDSTONE, fine grained, gray/white, dry	65.00					<120	2.3
70	CH-CLAY, fat, brown/red, dry	70.00					<120	1.6

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

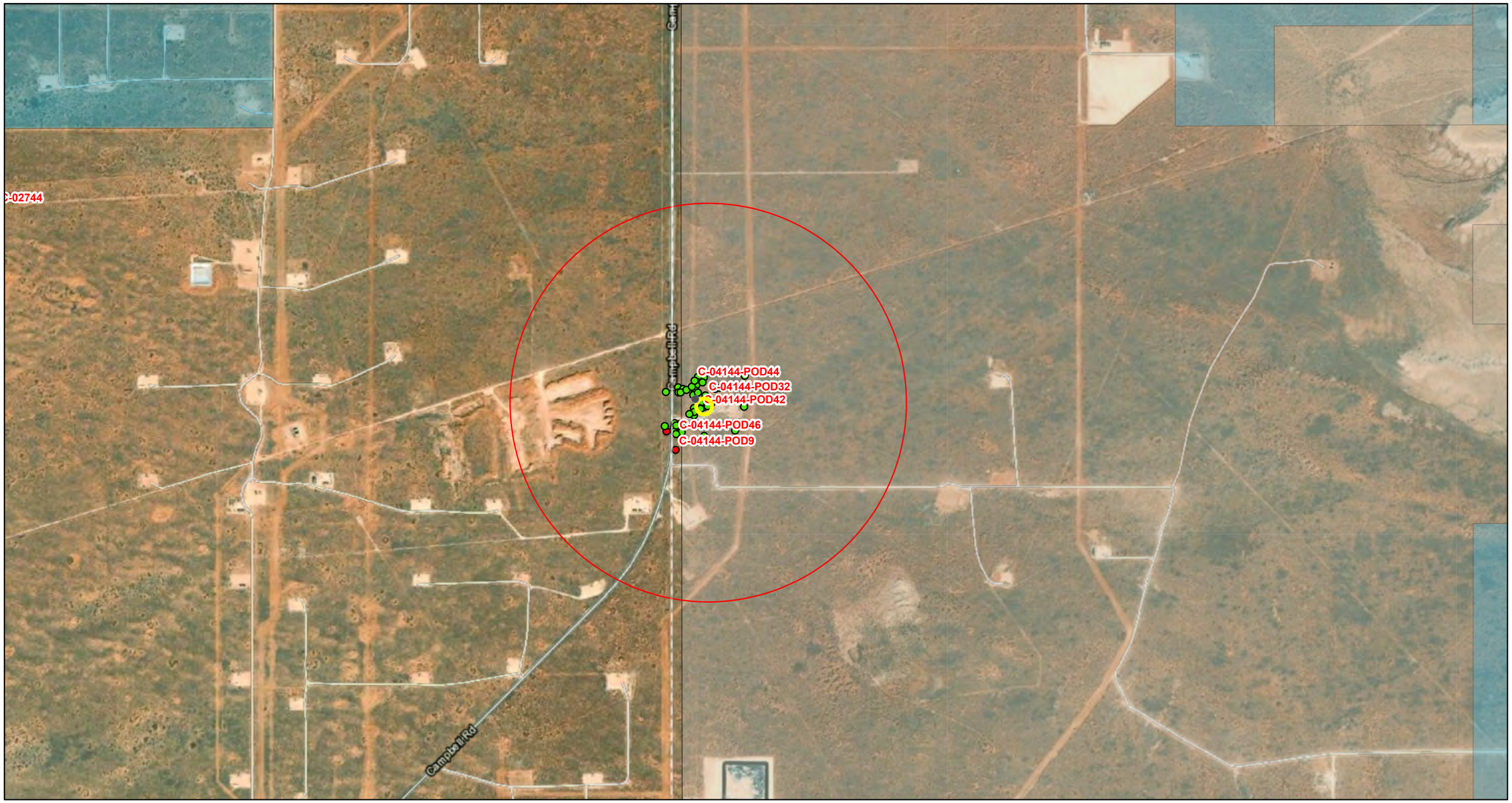
HOLE DESIGNATION: MW-11
DATE COMPLETED: August 5, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE Cl (ppm)	SAMPLE PID (ppm)
80	CLAYEY SANDSTONE, fine to medium grained, brown, dry	80.00					<120	38.8
85	SANDSTONE, medium grained, gray/white, dry	85.00					<120	30.9
90							<120	20.3
95							<120	28.1
100							<120	87.1
105	END OF BOREHOLE @ 105.00ft BGS Boring was left open for 72 hours and then a water probe was used to determine the presence or absence of groundwater. No groundwater was detected and the boring was plugged.	105.00					<120	78.1
110								
115								
120								
125								
130								
135								
140								
145								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

OSE POD Locations Map



1/25/2022, 11:43:35 AM

GIS WATERS PODs
- Active
- Pending
- Plugged

OSE District Boundary

Water Right Regulations
- Closure Area

New Mexico State Trust Lands
- Subsurface Estate
- Both Estates
- SiteBoundaries

1:18,056

0 0.17 0.35 0.7 mi

0 0.3 0.6 1.2 km

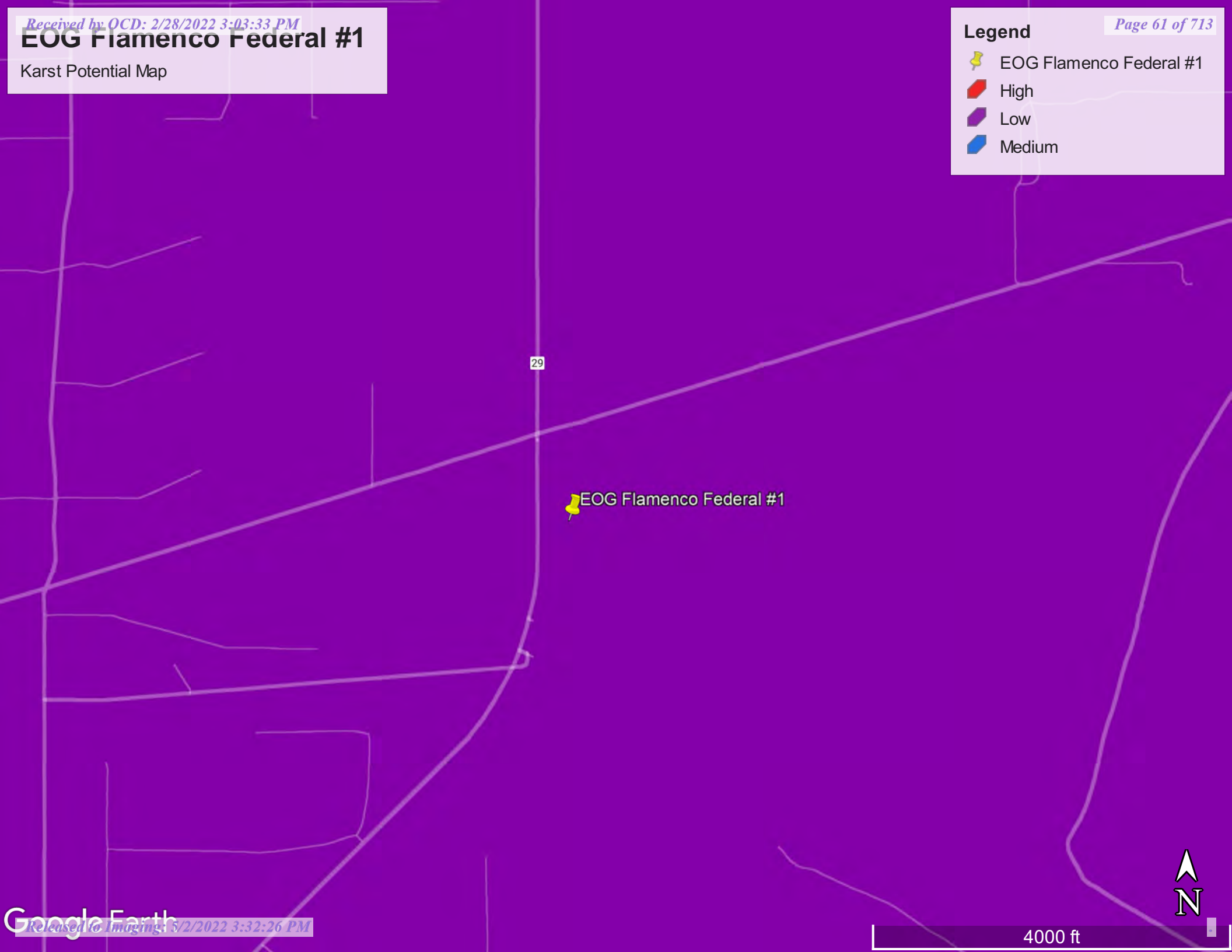
Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

Unofficial Online Map
These maps are distributed “as is” without warranty of any kind.

Received by OCD: 2/28/2022 3:03:33 PM

EOG Flamenco Federal #1

Karst Potential Map



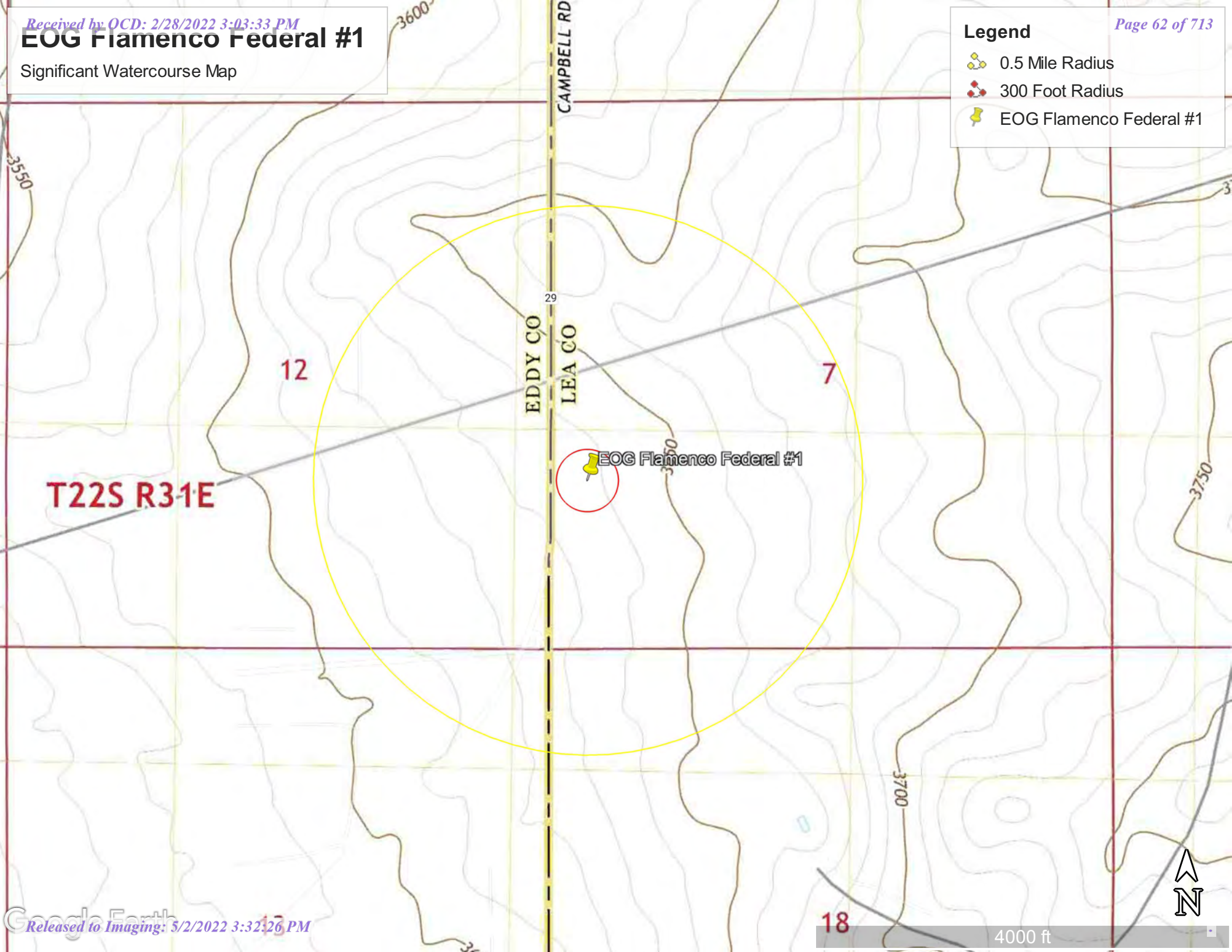
Released to Imaging: 5/2/2022 3:32:26 PM

EOG Flamenco Federal #1

Significant Watercourse Map

Legend

- 0.5 Mile Radius
- 300 Foot Radius
- EOG Flamenco Federal #1



U.S. Fish and Wildlife Service

National Wetlands Inventory

EOG Flamenco Federal #1

January 25, 2022

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Received by OCD: 2/28/2022 3:03:33 PM

National Flood Hazard Layer FIRMette

FEMA

103°43'37"W 32°24'28"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°43'W 32°23'57"N

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/25/2022 at 2:09 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Released to Imaging: 5/2/2022 3:32:26 PM

Attachment C
GHD and Cascade Drilling Soil Boring Logs

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: MW-10
DATE COMPLETED: August 3, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	CI (ppm)	PID (ppm)
	SM-SILTY SAND, fine grained, red/brown, dry						<120	4.7
5	CALICHE	4.00					<120	2.8
							<120	1.4
							<120	1.8
10	SC-CLAYEY SAND, fine grained, brown, dry	10.00					<120	6.8
15	SANDSTONE, fine to medium grained, tan, dry	15.00					<120	75.1
20							<120	1.6
25	SILTY SANDSTONE, fine grained, brown, dry	25.00					<120	54.9
30			Cement-Bentonite Grout				<120	5.0
35							<120	4.3
40							<120	78.4
45							<120	2.7
50							<120	5.4
55							<120	6.4
60							<120	8.1
65	SANDSTONE, medium grained, gray/tan, dry	65.00					<120	21.3
70	SILTY SANDSTONE, fine to medium grained, brown/red, dry	70.00					<120	7.2

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: MW-10
DATE COMPLETED: August 3, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE Cl (ppm)	SAMPLE PID (ppm)
80	SANDSTONE, caliche powder, medium grained, white, dry	80.00					<120	11.1
85	CH-CLAY, fat, brown, dry	85.00					<120	3.0
90	SANDSTONE, fine to medium grained, tan/brown, dry	90.00					<120	0.4
95							<120	3.4
100							<120	4.1
105	END OF BOREHOLE @ 105.00ft BGS Boring was left open for 72 hours and then a water probe was used to determine the presence or absence of groundwater. No groundwater was detected and the boring was plugged.	105.00					<120	2.8
110								
115								
120								
125								
130								
135								
140								
145								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: MW-11
DATE COMPLETED: August 5, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	CI (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry						<120	6.4
							<120	0.8
5							<120	1.1
	CALICHE	6.00					<120	2.3
10	SM-SILTY SAND, fine grained, brown, dry	10.00					<120	0.7
15							<120	2.0
20							<120	1.3
25	CL-SANDY CLAY, fine grained, brown, dry	25.00					<120	0.8
30	SANDSTONE, fine to medium grained, tan, dry	30.00	Cement-Bentonite Grout				148	6.9
35	CH-CLAY, fat, brown, dry	35.00					<120	3.4
40							<120	2.1
45							<120	2.0
50							<120	1.7
55							<120	2.3
60							<120	1.3
65	SANDSTONE, fine grained, gray/white, dry	65.00					<120	2.3
70	CH-CLAY, fat, brown/red, dry	70.00					<120	1.6

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: MW-11
DATE COMPLETED: August 5, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE Cl (ppm)	SAMPLE PID (ppm)
80	CLAYEY SANDSTONE, fine to medium grained, brown, dry	80.00					<120	22.9
							<120	38.8
85	SANDSTONE, medium grained, gray/white, dry	85.00					<120	30.9
90							<120	20.3
95							<120	28.1
100							<120	87.1
105	END OF BOREHOLE @ 105.00ft BGS Boring was left open for 72 hours and then a water probe was used to determine the presence or absence of groundwater. No groundwater was detected and the boring was plugged.	105.00					<120	78.1
110								
115								
120								
125								
130								
135								
140								
145								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-12
DATE COMPLETED: August 18, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry		2'			<120	11.2
	CALICHE	2.00	4'			>2604	0.4
5						>2604	23.3
	SM-SILTY SAND, fine grained, brown, dry	6.00				>2604	33.3
	CL-SANDY CLAY, fine grained, brown, dry	8.00				2400	36.6
10	SM-SILTY SAND, fine grained, brown, dry	10.00				>2604	33.4
15						>2604	32.1
20			20'			>2604	27.6
	SANDSTONE, fine to medium grained, tan, dry	25.00				1648	55.2
25						542	79.0
30						108	54.0
			40'			284	23.1
35	CH-CLAY, fat, brown, dry	35.00	45 45'			310	19.4
40						130	14.3
			55'			160	16.1
45	SANDSTONE, fine to medium grained, brown, dry	45.00	60'				
50	SANDSTONE, fine grained, brown, dry	50.00					
55							
60	END OF BOREHOLE @ 60.00ft BGS	60.00					
	This boring was dry.						
65							
70							

Cement-Bentonite Grout

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122----\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-13
DATE COMPLETED: July 25, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry			2'				
5				4'			<108	1.8
	CALICHE	6.00					<108	38.7
		8.00					<108	29.8
10	SM-SILTY SAND, fine grained, brown, dry			10'			<108	154.2
							<108	16.8
	- with fine gravel from 14.00 to 20.00ft BGS		Cement-Bentonite Grout				<108	23.8
15							<108	20.9
				18'			<108	219.8
20							<108	143
25	- with fine gravel from 25.00 to 30.00ft BGS						160	61.4
30	END OF BOREHOLE @ 30.00ft BGS	30.00		30'			<108	86.4
	This boring was dry.							
35								
40								
45								
50								
55								
60								
65								
70								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122----\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-14
DATE COMPLETED: August 6, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown/red, dry			2'			<120	2.8
	CALICHE	2.00		4'			1136	50.8
5	SM-SILTY SAND, fine grained, brown, dry	6.00					<120	2.7
							<120	1.3
10							<120	19.2
15			Cement-Bentonite Grout				1140	36.4
20	CH-CLAY, fat, brown, dry	20.00					1760	37.0
25				25'			>2572	19.5
30	SANDSTONE, fine to medium grained, white, dry	30.00		30'			136	34.3
35	END OF BOREHOLE @ 35.00ft BGS	35.00		35'			136	54.4
40	This boring was dry.							
45								
50								
55								
60								
65								
70								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-15
DATE COMPLETED: August 6, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
	SM-SILTY SAND, fine grained, brown, dry			2'			<120	2.6
	CALICHE	2.00		4'			420	2.6
5	SM-SILTY SAND, fine grained, brown, dry	4.00		6'			>2460	16.2
	CH-CLAY, fat, brown, dry	8.00					>2460	11.1
10	SM-SILTY SAND, fine grained, brown, dry	10.00					>2460	8.3
15							>2460	9.3
20			Cement-Bentonite Grout				2112	10.0
25	SILTY SANDSTONE, fine to medium grained, tan, dry	25.00					2112	12.3
30	SILTY SANDSTONE, fine to medium grained, white, dry	30.00					1716	13.1
35				35'			508	11.9
40	CH-CLAY, fat, brown, dry	40.00		40'			<120	3.2
45	END OF BOREHOLE @ 45.00ft BGS This boring was dry.	45.00		45'			<120	4.3
50								
55								
60								
65								
70								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-16
DATE COMPLETED: August 6, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry			2'			<120	1.3
	CALICHE	2.00		4'			164	2.0
5	SM-SILTY SAND, fine grained, brown, dry	4.00					<120	1.3
							<120	1.0
10			Cement-Bentonite Grout	10'			<120	1.3
15							<120	1.3
20	END OF BOREHOLE @ 20.00ft BGS	20.00		20'			<120	15.6
	This boring was dry.							
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (20')

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-17
DATE COMPLETED: July 26, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE Cl (ppm)	SAMPLE PID (ppm)
0	SM-SILTY SAND, fine grained, red/brown, dry			2'			<108	1.8
				4'			<108	0.8
5	SM-SILTY SAND, fine grained, brown, dry	5.00	Cement-Bentonite Grout					
10				10'			<108	13.8
15	END OF BOREHOLE @ 15.00ft BGS	15.00		15'			<108	6.1
	This boring was dry.							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-18
DATE COMPLETED: August 11, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry			2'			<120	4.9
				4'			<120	3.0
5							572	57.4
							852	22.9
10							1772	23.6
15	SANDY CALICHE	15.00					>2604	5.2
20	SANDSTONE, fine to medium grained, brown, dry	20.00					>2604	12.6
25	SANDSTONE, medium grained, brown, dry	25.00					>2604	11.3
30				30'			>2604	12.6
35	CH-CLAY, fat, brown, dry	35.00	Cement-Bentonite Grout				1772	14.1
40	SANDSTONE, fine to medium grained, tan, dry	40.00					>2604	13.0
45							1424	26.7
50	CH-CLAY, fat, brown, dry	50.00					792	24.8
55				55'			252	63.1
60				60'			188	25.7
65				65'			<120	8.5
70	END OF BOREHOLE @ 70.00ft BGS This boring was dry.	70.00		70'			<120	11.3

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-19
DATE COMPLETED: August 11, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry			2'			<120	5.3
				4'			<120	1.6
5	SANDY CALICHE	4.00					732	5.6
		8.00					732	6.1
	SM-SILTY SAND, fine grained, brown, dry						732	3.9
10								
15							1772	25.5
20	SANDSTONE, fine to medium grained, tan, dry	20.00		20'			2604	30.0
25	SANDSTONE, medium grained, tan/yellow, dry	25.00	Cement-Bentonite Grout				852	28.0
30	CH-CLAY, fat, brown, dry	30.00					852	36.4
35							1772	41.7
40	SANDSTONE, medium grained, brown, dry	40.00					1068	5.1
45	SANDSTONE, fine to medium grained, tan, dry	45.00		45'			160	57.0
50	END OF BOREHOLE @ 50.00ft BGS	50.00		50'			<120	5.4
	This boring was dry.							
55								
60								
65								
70								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-20
DATE COMPLETED: July 27, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE Cl (ppm)	SAMPLE PID (ppm)
0	SM-SILTY SAND, fine grained, red/brown, dry			2'			<120	0.5
5				4'			<120	0.2
10			Cement-Bentonite Grout	10'			<120	6.9
15	END OF BOREHOLE @ 15.00ft BGS This boring was dry.	15.00		15'			180	13.2
20								
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-21
DATE COMPLETED: July 27, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, red/brown, dry			2'			<120	0.4
				4'			352	0.4
10			Cement-Bentonite Grout	10'			>2492	70.5
15	SANDSTONE, fine to medium grained, tan/brown	15.00					>2492	30.0
20	END OF BOREHOLE @ 20.00ft BGS This boring was dry.	20.00		20'			1380	47.6

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-21A
DATE COMPLETED: August 11, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
	SM-SILTY SAND, fine grained, brown, dry			2'			<120	3.6
				4'			<120	6.1
5	CALICHE	4.00					>2604	53.7
							>2604	39.9
10	SANDSTONE, fine to medium grained, tan, dry	10.00					>2604	36.2
15				15'			2056	64.6
20	SANDSTONE, medium grained, tan/yellow, dry	20.00					>2604	31.7
25							>2604	16.7
30	SANDSTONE, medium grained, brown, dry	30.00	Cement-Bentonite Grout				1424	21.8
35				35'			>2604	26.7
40							2400	30.3
45	CH-CLAY, fat, brown, dry	45.00					<120	5.6
50							676	36.2
55				55'			160	34.1
60	END OF BOREHOLE @ 60.00ft BGS This boring was dry.	60.00		60'			<120	12.1
65								
70								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122----\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-21B
DATE COMPLETED: August 12, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry			2'			<120	5.3
5	CALICHE	4.00		4'			<120	0.9
				6'			920	31.2
		8.00					356	28.5
10	SANDSTONE, fine to medium grained, tan, dry		Cement-Bentonite Grout				188	23.7
15	SANDSTONE, medium grained, brown, dry	15.00		15'			<120	9.6
20	END OF BOREHOLE @ 20.00ft BGS	20.00		20'			<120	10.8
	This boring was dry.							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (20')

File: I:\LOG DATABASE\8-CHAR\11-----\1122----\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-21C
DATE COMPLETED: August 12, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry			2'			<120	5.8
				4'			<120	4.7
5				6'			<120	19.3
	CALICHE	6.00					<120	15.6
	SANDY CALICHE	8.00					<120	14.7
10	SANDSTONE, fine to medium grained, tan, dry	10.00	Cement-Bentonite Grout					
				15'			<120	22.7
15								
20	END OF BOREHOLE @ 20.00ft BGS	20.00		20'			<120	5.7
	This boring was dry.							
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (20')

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-22
DATE COMPLETED: August 11, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry			2'			120	4.7
		4.00		4'			120	0.8
5	SANDY CALICHE						356	11.2
							1648	13.1
10	SM-SILTY SAND, fine grained, brown, dry	10.00					>2604	23.0
15	SANDSTONE, fine to medium grained, gray/tan, dry	15.00		15'			>2604	5.7
20	SANDSTONE, fine to medium grained, brown, dry	20.00					>2604	6.3
25	SANDSTONE, fine to medium grained, tan/yellow, dry	25.00	Cement-Bentonite Grout				2056	11.2
30	SANDSTONE, fine to medium grained, brown, dry	30.00		30'			1148	43.9
35							<120	9.5
40							572	4.0
45	SANDSTONE, fine to medium grained, tan, dry	45.00		45'			160	5.8
50	END OF BOREHOLE @ 50.00ft BGS	50.00		50'			<120	6.9
55	This boring was dry.							
60								
65								
70								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-23
DATE COMPLETED: July 27, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE Cl (ppm)	SAMPLE PID (ppm)
0	SM-SILTY SAND, fine grained, red/brown, dry			2'			<120	1.1
5				4'				
10	SANDSTONE, fine to medium grained, tan, dry	10.00	Cement-Bentonite Grout	10'			<120	0.6
	- refusal at 13.00ft BGS	13.00					<120	29.2
15	END OF BOREHOLE @ 13.00ft BGS							
	This boring was dry.							
20								
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (2')

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-24
DATE COMPLETED: August 10, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry			2'			<120	3.3
		4.00		4'			<120	2.0
5	CALICHE	6.00					1148	32.6
	SANDY CALICHE	8.00					1148	28.7
10	SM-SILTY SAND, fine to medium grained, brown, dry	10.00					1148	30.0
	SANDSTONE, medium grained, tan, dry		Cement-Bentonite Grout	15'			1772	52.9
20							356	52.0
25				25'			<120	36.5
30	END OF BOREHOLE @ 30.00ft BGS	30.00		30'			<120	61.1
	This boring was dry.							
35								
40								
45								
50								
55								
60								
65								
70								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-25
DATE COMPLETED: August 10, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry			2'			<120	3.4
5	CALICHE	4.00		4'			<120	1.1
	SM-SILTY SAND, fine grained, brown, dry	6.00					>2472	13.9
							>2472	16.8
10							>2472	6.9
15				15'			>2472	5.3
20	SANDSTONE, fine to medium grained, brown, dry	20.00	Cement-Bentonite Grout				1648	57.3
25							1772	40.6
30				30'			2008	62.2
35							356	40.5
40				40'			<120	89.6
45	END OF BOREHOLE @ 45.00ft BGS This boring was dry.	45.00		45'			<120	49.6
50								
55								
60								
65								
70								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-26
DATE COMPLETED: August 10, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry			2'			<120	3.2
		4.00		4'			<120	1.6
5	CALICHE	6.00					>2472	47.0
	SANDY CALICHE	8.00					>2472	50.6
	SM-SILTY SAND, fine grained, brown, dry						>2472	58.8
10								
15	SANDSTONE, fine to medium grained, tan/gray, dry	15.00	Cement-Bentonite Grout	15'			>2472	71.1
20	CH-CLAY, fat, brown, dry	20.00					456	14.1
25				25'			160	39.7
30	END OF BOREHOLE @ 30.00ft BGS	30.00		30'			176	42.1
	This boring was dry.							
35								
40								
45								
50								
55								
60								
65								
70								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-27
DATE COMPLETED: July 26, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, red/brown, dry			2'			<120	1.2
5				4'			<120	0.8
10			Cement-Bentonite Grout	10'			1136	5.8
15	CALICHE	15.00		15'			<120	11.8
20	END OF BOREHOLE @ 20.00ft BGS This boring was dry.	20.00					140	19.4

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-27A
DATE COMPLETED: August 12, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry			2'			<120	6.2
5				4'			<120	5.9
	CALICHE	4.00					<120	15.1
		8.00					<120	9.8
10	SM-SILTY SAND, fine grained, brown, dry		Cement-Bentonite Grout	10'			<120	17.3
15				15'			188	17.1
20	END OF BOREHOLE @ 20.00ft BGS	20.00		20'			160	21.2
	This boring was dry.							
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-28
DATE COMPLETED: August 10, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
	SM-SILTY SAND, fine grained, brown, dry			2'			<120	3.8
				4'			<120	1.7
5	CALICHE	4.00					>2472	2.8
	SANDY CALICHE	8.00					>2472	3.5
10	SM-SILTY SAND, fine grained, brown, dry	10.00					>2472	3.1
15	SANDSTONE, fine to medium grained, tan/gray, dry	15.00					2472	5.3
20			Cement-Bentonite Grout	20'			>2472	10.2
25				25'			1328	91.7
30	SANDSTONE, medium grained, brown, dry	30.00					612	44.3
35							256	5.0
40				40'			216	61.4
45	END OF BOREHOLE @ 45.00ft BGS This boring was dry.	45.00		45'			196	79.3
50								
55								
60								
65								
70								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-29
DATE COMPLETED: August 10, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry			2'			<120	3.2
5	CALICHE	4.00		4'			<120	2.9
							620	28.3
	SANDY CALICHE	8.00					572	30.9
10	SANDSTONE, fine to medium grained, brown, dry	10.00	Cement-Bentonite Grout	10'			732	39.4
15				15'			<120	39.2
20							<120	14.6
25	END OF BOREHOLE @ 25.00ft BGS	25.00		25'			188	69.3
	This boring was dry.							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-30
DATE COMPLETED: August 9, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
	SM-SILTY SAND, fine grained, brown, dry			2'			<120	3.5
				4'			<120	1.7
5	CALICHE	4.00					2296	13.8
				8'			2296	27.0
10	SM-SILTY SAND, fine grained, brown, dry	10.00					2296	25.3
15			Cement-Bentonite Grout				608	12.2
20	SANDSTONE, fine to medium grained, tan, dry	20.00					728	14.1
25	CH-CLAY, fat, brown, dry	25.00		25'			212	55.4
30	END OF BOREHOLE @ 30.00ft BGS	30.00		30'			144	23.0
35	This boring was dry.							
40								
45								
50								
55								
60								
65								
70								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-31
DATE COMPLETED: August 9, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry			2'			<120	7.1
				4'			<120	1.3
5							>2472	14.6
							>2472	12.9
10							>2472	36.8
15	SANDSTONE, medium grained, gray, dry	15.00	Cement-Bentonite Grout	15'			>2472	21.3
20							1240	17.0
25	CH-CLAY, fat, brown, dry	25.00		25'			168	49.8
30	END OF BOREHOLE @ 30.00ft BGS	30.00		30'			168	14.5
	This boring was dry.							
35								
40								
45								
50								
55								
60								
65								
70								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-32
DATE COMPLETED: July 27, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, red/brown, dry			2'			<120	1.6
5				4'			<120	0.8
10			Cement-Bentonite Grout	10'			180	7.8
15	CALICHE	15.00		15'			540	8.1
20	END OF BOREHOLE @ 20.00ft BGS This boring was dry.	20.00					415	63.8

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-33
DATE COMPLETED: August 8, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry			2'			<108	4.3
				4'			<108	8.5
5	CALICHE	4.00					<108	14.7
	SM-SILTY SAND, fine grained, brown, dry	6.00					1648	24.3
10							1908	22.0
15							1532	13.3
20	SANDSTONE, fine to medium grained, gray/tan, dry	20.00		20'			1908	15.5
25							1232	6.4
30	CH-CLAY, fat, brown, dry	30.00	Cement-Bentonite Grout				1648	10.2
35	SANDSTONE, fine to medium grained, brown, dry	35.00					572	5.7
40							1740	13.0
45	CH-CLAY, fat, brown, dry	45.00					1864	15.2
50	SANDSTONE, fine to medium grained, brown, dry	50.00					256	40.7
55				55'			560	78.5
60	CH-CLAY, brown, dry	60.00		60'			144	67.0
65	END OF BOREHOLE @ 65.00ft BGS	65.00		65'			292	20.0
70	This boring was dry.							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-34
DATE COMPLETED: August 8, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry			2'			<120	2.6
				4'			<120	5.1
5	CALICHE	4.00		6'			572	28.2
		8.00					284	26.9
10	SM-SILTY SAND, fine grained, brown, dry						356	33.5
			Cement-Bentonite Grout					
15				15'			188	29.0
20							188	18.4
25	END OF BOREHOLE @ 25.00ft BGS	25.00		25'			<108	10.0
	This boring was dry.							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-35
DATE COMPLETED: August 17, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
	SM-SILTY SAND, fine grained, brown, dry			2'			<120	1.4
		4.00		4'			156	0.9
5	CALICHE	6.00					1792	3.8
	SM-SILTY SAND, fine grained, brown, dry						1792	4.5
10							1328	3.1
15							1648	23.8
20							1648	28.5
25	SANDSTONE, SANDSTONE, medium grained, tan, dry	25.00		25'			1648	31.0
30	CH-CLAY, fat, brown, dry	30.00					2048	18.6
35	SANDSTONE, fine to medium grained, brown, dry	35.00	Cement-Bentonite Grout				2048	23.4
40	SANDSTONE, medium grained, tan/gray, dry	40.00		40'			320	45.0
45	SANDSTONE, fine to medium grained, tan, dry	45.00		45'			<120	26.4
50	SANDSTONE, fine to medium grained, brown, dry	50.00					188	2.8
55				55'			1068	5.8
60	CH-CLAY, fat, brown, dry	60.00					<120	76.2
65							160	38.6
70	SANDSTONE, medium grained, tan, dry	70.00					320	16.4

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122----\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-35
DATE COMPLETED: August 17, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE Cl (ppm)	SAMPLE PID (ppm)
80	SANDSTONE, fine to medium grained, brown, dry	75.00		75'			<120	19.6
	END OF BOREHOLE @ 80.00ft BGS This boring was dry.	80.00		80'			<120	4.9
85								
90								
95								
100								
105								
110								
115								
120								
125								
130								
135								
140								
145								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-36
DATE COMPLETED: August 8, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
	SM-SILTY SAND, fine grained, brown, dry			2'			<108	2.1
		4.00		4'			<108	3.4
5	CALICHE						2056	13.3
		8.00					1648	10.4
	SM-SILTY SAND, fine grained, brown, dry						1232	11.1
10								
				15'			2400	19.3
15								
20							1648	13.0
		25.00					1648	29.3
25	SANDSTONE, fine to medium grained, tan, dry							
		30.00					572	5.4
30	CH-CLAY, fat, brown, dry							
		35.00	Cement-Bentonite Grout				848	95.4
35	SANDSTONE, fine to medium grained, tan, dry							
40							1148	142
		45.00					1068	38.6
45	SANDSTONE, fine to medium grained, brown, dry							
		50.00		50'			>2604	208.6
50	CH-CLAY, fat, brown, dry							
		55.00					480	85.9
55	SANDSTONE, fine grained, gray, dry							
		60.00		60'			<120	20.2
60	CH-CLAY, fat, brown, dry							
				65'			320	49.8
65								
		70.00					420	3.7
70	MUDSTONE, very fine grained, brown/red, dry							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-36
DATE COMPLETED: August 8, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE Cl (ppm)	SAMPLE PID (ppm)
80	SANDSTONE, medium grained, tan, dry	75.00		75'			<120	11.4
	END OF BOREHOLE @ 80.00ft BGS This boring was dry.	80.00		80'			<120	5.4

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-37
DATE COMPLETED: August 8, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry			2'			<120	1.2
		4.00		4'			572	2.1
5	CALICHE						1232	7.3
							1648	4.5
10	SM-SILTY SAND, fine grained, brown, dry	10.00					1908	4.5
15	SP-SILTY CALICHE SAND, medium grained, tan, dry	15.00					852	5.2
20	SM-SILTY SAND, fine grained, brown, dry	20.00					920	3.6
25							436	3.7
30	CH-CLAY, fat, brown, dry	30.00	Cement-Bentonite Grout	30'			1908	53.0
35	SANDSTONE, fine to medium grained, tan, dry	35.00					1324	68.0
40							1908	67.0
45	CH-CLAY, fat, brown, dry	45.00		45'			732	86.7
50							1772	37.1
55	CL-SANDY CLAY, fine grained, gray, dry	55.00					1068	17.1
60	CH-CLAY, fat, brown, dry	60.00		60'			108	13.1
65	END OF BOREHOLE @ 65.00ft BGS This boring was dry.	65.00		65'			<108	19.3
70								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122----\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-38
DATE COMPLETED: August 7, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry			2'			<120	0.3
				4'			>1604	1.7
5	CALICHE	4.00					>1604	12.5
	SM-SILTY SAND, fine grained, brown, dry	6.00					>1604	9.7
10							1232	11.0
15	CL-SANDY CLAY, fine grained, brown, dry	15.00					920	38.1
20	SM-SILTY SAND, fine grained, brown, dry	20.00		20'			2052	17.4
25							1424	33.0
30	SANDSTONE, fine to medium grained, tan to white, dry	30.00	Cement-Bentonite Grout				856	19.7
35							856	67.3
40	SANDSTONE, medium grained, brown, dry	40.00		40'			676	105.3
45							1224	34.7
50	CH-CLAY, fat, brown, dry	50.00					1760	5.0
55	CLAYEY SANDSTONE, fine grained, brown, dry	55.00					1224	14.5
60				60'			252	19.3
65	END OF BOREHOLE @ 65.00ft BGS	65.00		65'			188	10.5
70	This boring was dry.							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-39
DATE COMPLETED: July 26, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE Cl (ppm)	SAMPLE PID (ppm)
0	SM-SILTY SAND, fine grained, red/brown, dry			2'			<120	0.8
5				4'			<120	0.5
10			Cement-Bentonite Grout	10'			<120	7.3
15	END OF BOREHOLE @ 15.00ft BGS	15.00		15'			<120	20.1
	This boring was dry.							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-40
DATE COMPLETED: July 26, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, red/brown, dry			2'			<120	0.6
5	SANDY CALICHE, fine grained, tan, dry	4.00		4'			<120	0.5
10			Cement-Bentonite Grout	10'			<120	5.1
15	SANDSTONE, fine to medium grained, gray	15.00		15'			1600	12.6
20	END OF BOREHOLE @ 20.00ft BGS This boring was dry.	20.00					1604	5.6

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-40A
DATE COMPLETED: August 12, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry			2'			<120	6.1
5				4'			<120	2.8
	CALICHE	4.00					<120	5.0
		8.00					<120	6.1
10	SM-SILTY SAND, fine grained, brown, dry			10'			<120	7.1
15			Cement-Bentonite Grout				<120	6.3
20	SANDSTONE, fine to medium grained, tan, dry	20.00		20'			187	6.3
25	END OF BOREHOLE @ 25.00ft BGS	25.00		25'			108	2.1
	This boring was dry.							
30								
35								
40								
45								
50								
55								
60								
65								
70								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-41
DATE COMPLETED: July 27, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE Cl (ppm)	SAMPLE PID (ppm)
0	SM-SILTY SAND, fine grained, red/brown, dry			2'			<120	0.8
5				4'			<120	0.5
10			Cement-Bentonite Grout	10'			<120	27.6
15	END OF BOREHOLE @ 15.00ft BGS	15.00		15'			<120	43.0
	This boring was dry.							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-42
DATE COMPLETED: July 27, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE Cl (ppm)	SAMPLE PID (ppm)
0	SM-SILTY SAND, fine grained, red/brown, dry			2'			<120	0.8
5	CALICHE	4.00		4'			<120	0.6
10	SANDSTONE, fine to medium grained, tan brown, dry	10.00	Cement-Bentonite Grout	10'			<120	34.2
15	END OF BOREHOLE @ 15.00ft BGS This boring was dry.	15.00		15'			<120	18.9

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (15')

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-43
DATE COMPLETED: August 18, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	REC (ft)	CI (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry			2'			>2604	3.2
				4'			>2604	3.0
5							>2604	11.0
							>2604	17.4
10							>2604	32.6
15	CH-CLAY, fat, brown, dry	15.00					>2604	32.0
20	SM-SILTY SAND, fine grained, brown, dry	20.00					>2604	27.7
25	SANDSTONE, fine to medium grained, white, dry	25.00	Cement-Bentonite Grout	25'			1648	38.3
30							792	37.2
35	CH-CLAY, fat, brown, dry	35.00		35'			2406	7.2
40				40'			160	13.3
45	SANDSTONE, medium grained, tan/yellow, dry	45.00		45'			160	38.3
50	CLAYEY SANDSTONE, brown, dry	50.00		50'			138	21.5
55	END OF BOREHOLE @ 55.00ft BGS This boring was dry.	55.00		55'			<120	10.3
60								
65								
70								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Flamenco Federal #1
PROJECT NUMBER: 11220747
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: Cascade

HOLE DESIGNATION: SB-44
DATE COMPLETED: August 6, 2021
DRILLING METHOD: Sonic
FIELD PERSONNEL: C. Neligh
DRILLER: Cole

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	Cl (ppm)	PID (ppm)
0	SM-SILTY SAND, fine grained, brown, dry			2'			<120	2.1
5	SANDY CALICHE, fine grained	4.00		4'			<120	0.9
							1676	10.2
10	SM-SILTY SAND, fine grained, brown, dry	8.00		8'			2176	7.8
							1472	4.5
15	CH-CLAY, brown, dry	15.00	Cement-Bentonite Grout				436	14.1
20							735	11.5
25	SANDSTONE, fine to medium grained, gray/tan, dry	25.00		25'			<120	14.5
30	END OF BOREHOLE @ 30.00ft BGS This boring was dry.	30.00		30'			<120	9.5
35								
40								
45								
50								
55								
60								
65								
70								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122----\11220747 FLAMENCO\11220747-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 10/27/21

Page 110 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S)
POD 12	PMW-10	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	15.17	N
	LONGITUDE	-103	43	11.00	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/3/21	8/3/21	NA	105	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	105	6	Cement with 5% Bentonite	23	Trimie Pumped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 111 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	6	6	Fine Silty Sand Red/Brown	Y ✔ N	
6	10	4	Caliche	Y ✔ N	
10	15	5	Fine Clayey sand brown	Y ✔ N	
15	25	10	Fine sandstone brown	Y ✔ N	
25	65	40	Fine silty sandstone Brown	Y ✔ N	
65	70	5	Medium Sandstone Gray	Y ✔ N	
70	85	15	Fine silty sandstone Brown	Y ✔ N	
85	90	5	Fine to Medium Sandstone	Y ✔ N	
90	95	5	Fine - Very fine Fat Clay Brown	Y N	
95	105	10	Fine to medium sandstone	Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Jason Camp

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — 11/19/21

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 112 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: PMW-10

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/3/2021 Date well plugging concluded: 8/3/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 15.17 sec
Longitude: -103 deg, 43 min, 11.00 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 105 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 113 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	185	162	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 114 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 13	PMW-11	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	08.61	N
	LONGITUDE	-103	43	23.28	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/5/21	8/5/21	NA	105	NA

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	105	6	Cement with 5% Bentonite	23	Trimie Pumped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 115 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	6	6	Fine Silty Sand Red/Brown	Y ✔ N	
6	10	4	Caliche	Y ✔ N	
10	15	5	Fine Clayey sand brown	Y ✔ N	
15	25	10	Fine sandstone brown	Y ✔ N	
25	60	35	Fine silty sandstone Brown	Y ✔ N	
60	70	10	Fat Clay Brown	Y ✔ N	
70	85	15	Fine silty sandstone Brown	Y ✔ N	
85	105	20	Fine to Medium Sandstone	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Jason Camp

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/19/21 — DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 116 of 713

PLUGGING RECORD

NOTE: **A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: PMW-11

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/5/2021 Date well plugging concluded: 8/5/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 8.61 sec
Longitude: -103 deg, 43 min, 23.28 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 105 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 117 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	185	162	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller — Date: 11/20/21

Received by OCD: 2/28/2022 3:03:33 PM
Released to Imaging: 5/2/2022 3:32:26 PM

Page 118 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 14	SB-12	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	09.24	N
	LONGITUDE	-103	43	21.72	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/7/21	8/7/21	NA	60	NA

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	60	6	Cement with 5% Bentonite	14	Trimie Pumped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 119 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	2	2	Fine Silty Sand Red/Brown	Y ✔ N	
2	6	4	Caliche	Y ✔ N	
6	8	2	Fine silty sand brown	Y ✔ N	
8	10	2	Fine Sandy Clay Brown	Y ✔ N	
10	30	20	Fine silty sand Brown	Y ✔ N	
30	40	10	Fine to medium sandstone Brown	Y ✔ N	
40	50	10	Very fat clay Brown	Y ✔ N	
50	60	10	Fine to Medium Sandstone	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Jason Camp

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — 11/19/21

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 120 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-12

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/7/2021 Date well plugging concluded: 8/7/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 9.24 sec
Longitude: -103 deg, 43 min, 21.72 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 60 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 121 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	110	93	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21

Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 122 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 16	SB-14	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	08.65	N
	LONGITUDE	-103	43	21.85	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/6/21	8/6/21	NA	35	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	35	6	Cement with 5% Bentonite	7.5	Trimie Pumped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 123 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	2	2	Fine Silty Sand Red/Brown	Y ✔ N	
2	6	4	Caliche	Y ✔ N	
6	20	14	Fine silty sand brown	Y ✔ N	
20	30	10	Fat Clay Brown	Y ✔ N	
30	35	5	Medium sandstone White	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/19/21 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 124 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-14

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/6/2021 Date well plugging concluded: 8/6/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 8.65 sec
Longitude: -103 deg, 43 min, 21.85 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 35 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 125 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	70	54	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 126 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 17	SB-15	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	08.09	N
	LONGITUDE	-103	43	21.79	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/6/21	8/6/21	NA	45	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	45	6	Cement with 5% Bentonite	10	Trimie Pumped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 127 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	2	2	Fine Silty Sand Red/Brown	Y ✔ N	
2	4	2	Caliche	Y ✔ N	
4	10	6	Fine silty sand brown	Y ✔ N	
10	15	5	Fat Clay Brown	Y ✔ N	
15	30	15	Fine silty sand Brown	Y ✔ N	
30	42	12	Medium silty sandstone Tan	Y ✔ N	
42	45	3	Fat clay Brown	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — 11/19/21

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 128 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-15

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/6/2021 Date well plugging concluded: 8/6/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 8.09 sec
Longitude: -103 deg, 43 min, 21.79 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 45 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 129 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	88	70	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 130 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 18	SB-16	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	08.03	N
	LONGITUDE	-103	43	20.99	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/6/21	8/6/21	NA	20	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	20	6	Cement with 5% Bentonite	5	Trimie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 131 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	2	2	Fine Silty Sand Red/Brown	Y ✔ N	
2	4	2	Caliche	Y ✔ N	
4	20	14	Fine silty sand brown	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — 11/19/21

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 132 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-16

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/6/2021 Date well plugging concluded: 8/6/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 8.03 sec
Longitude: -103 deg, 43 min, 20.99 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 20 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 133 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	40	31	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21

Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 134 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 19	SB-17	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	08.04	N
	LONGITUDE	-103	43	20.64	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
7/26/21	7/26/21	NA	15	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	15	6	Cement with 5% Bentonite	4	Trimie Pumped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 135 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	2	2	Fine Silty Sand Red/Brown	Y ✔ N	
2	15	13	Fine Silty sand	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/19/21 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 136 of 713

PLUGGING RECORD

NOTE: **A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-17

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 7/26/2021 Date well plugging concluded: 7/26/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 8.04 sec
Longitude: -103 deg, 43 min, 20.64 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 15 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 137 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	32	23	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 138 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 20	SB-18	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	13.89	N
	LONGITUDE	-103	43	21.20	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/11/21	8/11/21	NA	70	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	70	6	Cement with 5% Bentonite	15	Trimie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 139 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	20	20	Fine Silty Sand Brown	Y ✔ N	
20	25	5	Sandy Caliche	Y ✔ N	
25	40	15	Medium sandstone Brown	Y ✔ N	
40	45	5	Fat Clay Brown	Y ✔ N	
45	55	10	Medium Sandstone Brown	Y ✔ N	
55	70	15	Fat Clay Brown	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — 11/19/21

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 140 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-18

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 7/26/2021 Date well plugging concluded: 7/26/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 13.89 sec
Longitude: -103 deg, 43 min, 21.20 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 70 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 141 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	125	108	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 142 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 21	SB-19	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	13.69	N
	LONGITUDE	-103	43	20.43	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/11/21	8/11/21	NA	50	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	50	6	Cement with 5% Bentonite	11	Trimie Pumped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 143 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	4	4	Fine Silty Sand Brown	Y ✔ N	
4	10	6	Sandy Caliche	Y ✔ N	
10	25	15	Fine silty sand	Y ✔ N	
25	35	10	Medium sandstone Brown	Y ✔ N	
35	45	10	Fat Clay Brown	Y ✔ N	
45	50	5	Mediud sandstone Brown	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — 11/19/21

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 144 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-19

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/11/2021 Date well plugging concluded: 8/11/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 13.69 sec
Longitude: -103 deg, 43 min, 20.43 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 50 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 145 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	90	77	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 146 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 22	SB-20	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	13.25	N
	LONGITUDE	-103	43	21.14	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
7/27/21	7/27/21	NA	15	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	15	6	Cement with 5% Bentonite	4	Trimie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 147 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	15	15	Fine Silty Sand Brown	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/19/21 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 148 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-20

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 7/27/2021 Date well plugging concluded: 7/27/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 13.25 sec
Longitude: -103 deg, 43 min, 21.14 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 15 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 149 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	30	23	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 150 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 23	SB-21	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	14.08	N
	LONGITUDE	-103	43	20.80	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
7/27/21	7/27/21	NA	20	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	20	6	Cement with 5% Bentonite	4.5	Trimie Pumped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 151 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	15	15	Fine Silty Sand Red/Brown, Dry	Y ✔ N	
15	20	5	Medium-Fine Sandstone Tan/Brown	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — 11/19/21

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 152 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-21

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 7/27/2021 Date well plugging concluded: 7/27/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 14.08 sec
Longitude: -103 deg, 43 min, 20.80 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 20 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 153 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	40	31	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 154 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 23	SB-21A	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	14.35	N
	LONGITUDE	-103	43	20.80	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/11/21	8/11/21	NA	60	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	60	6	Cement with 5% Bentonite	13	Trimie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 155 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	4	4	Fine Silty Sand Brown	Y ✔ N	
4	10	6	Caliche	Y ✔ N	
10	45	35	Medium to fine Sandstone	Y ✔ N	
45	60	15	Fat Clay Brown	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Step out boring

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — 11/20/21

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 156 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-21A

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/11/2021 Date well plugging concluded: 8/11/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 14.35 sec
Longitude: -103 deg, 43 min, 20.80 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 60 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 157 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	110	93	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21

Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 158 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 23	SB-21B	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	14.90	N
	LONGITUDE	-103	43	20.47	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/12/21	8/12/21	NA	20	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	20	6	Cement with 5% Bentonite	4.5	Trimie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 159 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	4	4	Fine Silty Sand Brown	Y ✔ N	
4	10	6	Caliche	Y ✔ N	
10	20	10	Medium Sandstone	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Step out boring

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/19/21 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 160 of 713

PLUGGING RECORD

NOTE: **A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-21B

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/12/2021 Date well plugging concluded: 8/12/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 14.90 sec
Longitude: -103 deg, 43 min, 20.47 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 20 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 161 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	40	31	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 162 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 24	SB-22	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	13.57	N
	LONGITUDE	-103	43	19.89	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/11/21	8/11/21	NA	50	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	50	6	Cement with 5% Bentonite	11	Trimie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 163 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	4	4	Fine Silty Sand Brown	Y ✔ N	
4	15	7	Caliche	Y ✔ N	
15	20	5	Fine silly sand Brown	Y ✔ N	
20	50	30	Medium sandstone Brown	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/20/21 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 164 of 713

PLUGGING RECORD

NOTE: **A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB- 22

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/11/2021 Date well plugging concluded: 8/11/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 13.57 sec
Longitude: -103 deg, 43 min, 19.89 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 50 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 165 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	90	77	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 166 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 25	SB-23	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	15.26	N
	LONGITUDE	-103	43	18.14	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
7/27/21	7/27/21	NA	13	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	13	6	Cement with 5% Bentonite	3	Trimie Pumped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 167 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	10	10	Fine Silty Sand Brown	Y ✔ N	
10	13	3	Medium sandstone	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — 11/20/21

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 168 of 713

PLUGGING RECORD

NOTE: **A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-23

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 7/27/2021 Date well plugging concluded: 7/27/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 15.26 sec
Longitude: -103 deg, 43 min, 18.14 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 13 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 169 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	30	21	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 170 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 26	SB-24	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	14.62	N
	LONGITUDE	-103	43	18.21	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
7/27/21	7/27/21	NA	30	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	30	6	Cement with 5% Bentonite	7	Trimie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 171 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	6	6	Fine Silty Sand Brown	Y ✔ N	
6	10	4	Caliche	Y ✔ N	
10	30	20	Medium sandstone Brown	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/20/21 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 172 of 713

PLUGGING RECORD

NOTE: **A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-24

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 7/27/2021 Date well plugging concluded: 7/27/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 14.62 sec
Longitude: -103 deg, 43 min, 18.21 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 30 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 173 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	55	46	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21

Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 174 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 27	SB-25	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	14.17	N
	LONGITUDE	-103	43	18.40	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/10/21	8/10/21	NA	45	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	45	6	Cement with 5% Bentonite	10	Tremie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 175 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	6	6	Fine Silty Sand Brown	Y ✔ N	
6	8	2	Caliche	Y ✔ N	
8	25	17	Fine silty sand Brown	Y ✔ N	
25	45	20	Medium Sandstone	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/20/21 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 176 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-25

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/10/2021 Date well plugging concluded: 8/10/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 14.17 sec
Longitude: -103 deg, 43 min, 18.40 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 45 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 177 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	80	70	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 178 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 28	SB-26	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	13.51	N
	LONGITUDE	-103	43	18.62	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/10/21	8/10/21	NA	30	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	30	6	Cement with 5% Bentonite	6.6	Tremie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 179 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	6	6	Fine Silty Sand Brown	Y ✔ N	
6	10	4	Caliche	Y ✔ N	
10	20	10	Fine silty sand Brown	Y ✔ N	
20	25	5	Medium Sandstone	Y ✔ N	
25	30	5	Fat Clay Brown	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/20/21 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 180 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-26

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/10/2021 Date well plugging concluded: 8/10/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 13.51 sec
Longitude: -103 deg, 43 min, 18.62 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 30 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 181 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	55	46	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21

Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 182 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 29	SB-27	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	12.90	N
	LONGITUDE	-103	43	18.85	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
7/26/21	7/26/21	NA	20	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	20	6	Cement with 5% Bentonite	4.5	Trimie Pumped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 183 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	15	15	Fine Silty Sand Brown	Y ✔ N	
15	20	5	Caliche	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — 11/20/21

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 184 of 713

PLUGGING RECORD

NOTE: **A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-27

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 7/26/2021 Date well plugging concluded: 7/26/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 12.90 sec
Longitude: -103 deg, 43 min, 18.85 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 20 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 185 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	40	31	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 186 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 29	SB-27A	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	12.57	N
	LONGITUDE	-103	43	18.87	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/12/21	8/12/21	NA	20	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	20	6	Cement with 5% Bentonite	4.5	Tremie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 187 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	4	4	Fine Silty Sand Brown	Y ✔ N	
4	8	4	Caliche	Y ✔ N	
8	20	12	Fine Silty Sand Brown	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Step Out boring

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — 11/20/21

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 188 of 713

PLUGGING RECORD

NOTE: **A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-27A

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/12/2021 Date well plugging concluded: 8/12/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 12.57 sec
Longitude: -103 deg, 43 min, 18.87 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 20 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 189 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	40	31	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21

Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 190 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 30	SB-28	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	13.22	N
	LONGITUDE	-103	43	18.11	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/10/21	8/10/21	NA	45	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	45	6	Cement with 5% Bentonite	10	Tremie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 191 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	6	6	Fine Silty Sand Brown	Y ✔ N	
6	15	9	Caliche	Y ✔ N	
15	20	5	Fine silty sand Brown	Y ✔ N	
20	45	25	Medium Sandstone	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — 11/20/21

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 192 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-28

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/10/2021 Date well plugging concluded: 8/10/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 13.22 sec
Longitude: -103 deg, 43 min, 18.11 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 45 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 193 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	80	69	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21

Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 194 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 31	SB-29	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	14.40	N
	LONGITUDE	-103	43	17.42	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/10/21	8/10/21	NA	30	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	30	6	Cement with 5% Bentonite	6.5	Tremie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 195 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	4	4	Fine Silty Sand Brown	Y ✔ N	
4	8	4	Caliche	Y ✔ N	
8	30	22	Medium Sandstone Brown	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/20/21 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 196 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-29

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/10/2021 Date well plugging concluded: 8/10/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 14.40 sec
Longitude: -103 deg, 43 min, 17.42 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 30 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 197 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	55	46	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21

Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 198 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 32	SB-30	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	12.85	N
	LONGITUDE	-103	43	16.97	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/9/21	8/9/21	NA	30	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	30	6	Cement with 5% Bentonite	6.5	Tremie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 199 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	4	4	Fine Silty Sand Brown	Y ✔ N	
4	10	6	Caliche	Y ✔ N	
10	20	10	Fine silty sand Brown	Y ✔ N	
20	25	5	Medium Sandstone Brown	Y ✔ N	
25	30	5	Fat Clay	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — 11/20/21

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 200 of 713

PLUGGING RECORD

NOTE: **A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-30

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/9/2021 Date well plugging concluded: 8/9/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 12.85 sec
Longitude: -103 deg, 43 min, 16.97 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 30 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 201 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	55	46	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 202 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 33	SB-31	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	13.72	N
	LONGITUDE	-103	43	15.44	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/9/21	8/9/21	NA	30	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	30	6	Cement with 5% Bentonite	6.5	Tremie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 203 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	15	15	Fine Silty Sand Brown	Y ✔ N	
15	25	10	Medium Sandstone Gray	Y ✔ N	
25	30	5	Fat Clay	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/20/21 — DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 204 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-31

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/9/2021 Date well plugging concluded: 8/9/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 13.72 sec
Longitude: -103 deg, 43 min, 15.44 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 30 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 205 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	55	46	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21

Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 206 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 34	SB-32	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	13.86	N
	LONGITUDE	-103	43	14.75	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
7/27/21	7/27/21	NA	20	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	20	6	Cement with 5% Bentonite	4.5	Tremie Pumped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 207 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	15	15	Fine Silty Sand Brown	Y ✔N	
15	20	5	Caliche	Y ✔N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/20/21 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 208 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-32

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 7/27/2021 Date well plugging concluded: 7/27/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 13.86 sec
Longitude: -103 deg, 43 min, 14.75 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 20 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 209 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	40	31	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 210 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 35	SB-33	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	11.77	N
	LONGITUDE	-103	43	16.05	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/8/21	8/8/21	NA	65	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	65	6	Cement with 5% Bentonite	10	Tremie Pumped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 211 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	6	6	Fine Silty Sand Brown	Y ✔ N	
6	8	2	Caliche	Y ✔ N	
8	20	12	Fine silty sand Brown	Y ✔ N	
20	35	15	Medium Sandstone	Y ✔ N	
35	40	5	Fat Clay	Y ✔ N	
40	50	10	Medium Sandstone	Y ✔ N	
50	55	5	Fat Clay	Y ✔ N	
55	60	5	Medium sandstone	Y ✔ N	
60	65	5	Fat Clay	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/20/21 — DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 212 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-33

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/8/2021 Date well plugging concluded: 8/8/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 11.77 sec
Longitude: -103 deg, 43 min, 16.05 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 65 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 213 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	120	101	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 214 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 36	SB-34	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	11.45	N
	LONGITUDE	-103	43	16.62	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/8/21	8/8//21	NA	25	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	25	6	Cement with 5% Bentonite	5.5	Tremie Pumped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 215 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	4	4	Fine Silty Sand Brown	Y ✔ N	
4	10	6	Caliche	Y ✔ N	
10	25	15	Fine Silty Sand Brown	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — 11/20/21

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 216 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-34

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/8/2021 Date well plugging concluded: 8/8/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 11.45 sec
Longitude: -103 deg, 43 min, 16.62 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 25 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 217 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	45	38	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21

Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 218 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 37	SB-35	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	11.77	N
	LONGITUDE	-103	43	17.71	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/8/21	8/18/21	NA	80	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	80	6	Cement with 5% Bentonite	17	Tremie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 219 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	6	6	Fine Silty Sand Brown	Y ✔ N	
6	8	2	Caliche	Y ✔ N	
8	25	17	Fine silty sand Brown	Y ✔ N	
25	30	5	Medium Sandstone	Y ✔ N	
30	35	5	Fat Clay	Y ✔ N	
35	60	25	Medium Sandstone	Y ✔ N	
60	70	15	Fat Clay	Y ✔ N	
70	80	10	Medium sandstone	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/20/21 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 220 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-35

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/8/2021 Date well plugging concluded: 8/18/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 11.77 sec
Longitude: -103 deg, 43 min, 17.71 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 80 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 221 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	150	125	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21

Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 222 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 38	SB-36	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	11.18	N
	LONGITUDE	-103	43	17.82	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/8/21	8/8/21	NA	80	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	80	6	Cement with 5% Bentonite	17	Tremie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 223 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	4	4	Fine Silty Sand Brown	Y ✔ N	
4	8	4	Caliche	Y ✔ N	
8	25	17	Fine silty sand Brown	Y ✔ N	
25	30	5	Medium Sandstone	Y ✔ N	
30	35	5	Fat Clay	Y ✔ N	
35	50	15	Medium Sandstone	Y ✔ N	
50	55	5	Fat Clay	Y ✔ N	
55	60	5	Medium sandstone	Y ✔ N	
60	70	10	Fat Clay	Y ✔ N	
70	80	10	Medium Sandstone	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/20/21 — DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 224 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-36

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/8/2021 Date well plugging concluded: 8/8/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 11.18 sec
Longitude: -103 deg, 43 min, 17.82 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 80 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 225 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	150	125	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 226 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 39	SB-37	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	11.17	N
	LONGITUDE	-103	43	18.73	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/7/21	8/7/21	NA	65	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	65	6	Cement with 5% Bentonite	14	Tremie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 227 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	4	4	Fine Silty Sand Brown	Y ✔ N	
4	10	6	Caliche	Y ✔ N	
10	30	20	Fine silty sand Brown	Y ✔ N	
30	35	5	Fat Clay	Y ✔ N	
35	45	10	Medium sandstone	Y ✔ N	
45	65	20	Fat Clay	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — 11/20/21

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 228 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-37

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/7/2021 Date well plugging concluded: 8/7/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 11.17 sec
Longitude: -103 deg, 43 min, 18.73 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 65 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 229 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	120	100	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 230 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 40	SB-38	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	10.67	N
	LONGITUDE	-103	43	18.71	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/7/21	8/7/21	NA	65	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	65	6	Cement with 5% Bentonite	14	Tremie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 231 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	4	4	Fine Silty Sand Brown	Y ✔ N	
4	6	2	Caliche	Y ✔ N	
6	30	24	Fine silty sand Brown	Y ✔ N	
30	50	20	Medium Sanstone	Y ✔ N	
50	55	10	Fat Clay	Y ✔ N	
55	65	10	Clayey sandstone	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/20/21 — DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 232 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-38

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/7/2021 Date well plugging concluded: 8/7/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 10.67 sec
Longitude: -103 deg, 43 min, 18.71 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 65 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 233 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	120	100	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21

Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 234 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 41	SB-39	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	10.40	N
	LONGITUDE	-103	43	19.46	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
7/26/21	7/26/21	NA	15	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	15	6	Cement with 5% Bentonite	3.5	Tremie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 235 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	15	15	Fine Silty Sand Brown	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/20/21 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 236 of 713

PLUGGING RECORD

NOTE: **A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-39

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 7/26/2021 Date well plugging concluded: 7/26/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 10.40 sec
Longitude: -103 deg, 43 min, 19.46 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 15 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 237 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	30	23	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 238 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 42	SB-40	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	12.92	N
	LONGITUDE	-103	43	19.97	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
7/26/21	7/26//21	NA	20	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	20	6	Cement with 5% Bentonite	4.5	Tremie Pumped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 239 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	10	10	Fine Silty Sand Brown	Y ✔ N	
10	15	5	Caliche Tan	Y ✔ N	
15	20	5	Medium Sandstone	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — 11/20/21

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 240 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-40

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 7/26/2021 Date well plugging concluded: 7/26/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 12.92 sec
Longitude: -103 deg, 43 min, 19.97 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 20 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 241 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	40	31	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller — Date: 11/20/21

Version: September 8, 2009
Page 2 of 2

Received by OCD: 2/28/2022 3:03:33 PM
Released to Imaging: 5/2/2022 3:32:26 PM

Page 242 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 42	SB-40A	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	12.58	N
	LONGITUDE	-103	43	20.02	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/12/21	8/12//21	NA	25	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	25	6	Cement with 5% Bentonite	5.5	Tremie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 243 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	6	6	Fine Silty Sand Brown	Y ✔ N	
6	10	4	Caliche	Y ✔ N	
10	20	10	Fine silty sand	Y ✔ N	
20	25	5	Medium Sandstone Brown	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Step out boring

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/20/21 — DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 244 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-40A

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/12/2021 Date well plugging concluded: 8/12/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 12.58 sec
Longitude: -103 deg, 43 min, 20.02 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 25 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 245 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	45	38	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 246 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 43	SB-41	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	13.98	N
	LONGITUDE	-103	43	19.07	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
7/2/21	7/2/21	NA	15	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	15	6	Cement with 5% Bentonite	3.5	Tremie Pumped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 247 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	15	15	Fine Silty Sand Brown	Y ✔ N	
				Y ✔ N	
				Y ✔ N	
				Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/20/21 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 248 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-41

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 7/2/2021 Date well plugging concluded: 7/2/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 13.98 sec
Longitude: -103 deg, 43 min, 19.07 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 15 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 249 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	30	23	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 250 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 44	SB-42	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	14.79	N
	LONGITUDE	-103	43	18.64	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
7/27/21	7/27/21	NA	15	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	15	6	Cement with 5% Bentonite	3.5	Tremie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 251 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	8	8	Fine Silty Sand Brown	Y ✔ N	
8	10	2	Caliche	Y ✔ N	
10	15	5	Medium Sandstone Brown	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/20/21 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 252 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-42

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 7/27/2021 Date well plugging concluded: 7/27/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 14.79 sec
Longitude: -103 deg, 43 min, 18.64 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 15 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 253 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	30	23	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 254 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 45	SB-43	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	8.90	N
	LONGITUDE	-103	43	21.50	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/6/21	8/6/21	NA	55	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	55	6	Cement with 5% Bentonite	12	Tremie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 255 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	15	15	Fine Silty Sand Brown	Y ✔ N	
15	20	5	Fat Clay	Y ✔ N	
20	25	5	Fine silty sand Brown	Y ✔ N	
25	35	10	Medium Sanstone	Y ✔ N	
35	45	10	Fat Clay	Y ✔ N	
45	55	10	Clayey sandstone	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/20/21 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 256 of 713

PLUGGING RECORD

NOTE: **A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-43

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/6/2021 Date well plugging concluded: 8/6/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 8.90 sec
Longitude: -103 deg, 43 min, 21.50 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 257 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	100	85	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21
Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 258 of 713

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 46	SB-44	C-4144

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources	432-848-9146

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
5509 Champions Drive	Midland	Texas	79706

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	24	7.79	N
	LONGITUDE	-103	43	21.53	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Aproximately 10.5 south of US Highway 62/180

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/6/21	8/6/21	NA	30	NA

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Roto Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	30	6	Cement with 5% Bentonite	6.5	Tremie Pumped

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 259 of 713

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	4	4	Fine Silty Sand Brown	Y ✔N	
4	8	4	Caliche	Y ✔N	
8	20	12	Fine silty sand Brown	Y ✔N	
20	25	5	Fat Clay	Y ✔N	
25	30	5	Medium sandstone	Y ✔N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Cliff Hillman

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11/20/21 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 260 of 713

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: SB-44

Well owner: EOG Resources Phone No.: 432-848-9146

Mailing address: 5509 Champions Drive

City: Midland State: Texas Zip code: 79706

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling

2) New Mexico Well Driller License No.: 1664 Expiration Date: 1/31/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cliff Hillman

4) Date well plugging began: 8/6/2021 Date well plugging concluded: 8/6/2021

5) GPS Well Location: Latitude: 32 deg, 24 min, 7.79 sec
Longitude: -103 deg, 43 min, 21.53 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 30 ft below ground level (bgl), by the following manner: tag line

7) Static water level measured at initiation of plugging: None ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/24/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 261 of 713

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Neat Cement	55	46	Tremie	Boring no water

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Shawn Cain, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11/20/21

Date

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Appendix D
NMSOE Well Permits and BLM Sundry

Page 263 of 713

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
District 2 Office, Roswell, NM

John R. D'Antonio Jr. , P.E.
State Engineer

1900 West Second Street
Roswell, New Mexico 88201
(575) 622-6521
FAX: (575) 623-8559

March 24, 2021

EOG Resources
c/o GHD Services
5509 Champions Dr
Albuquerque, NM 79706

RE: *Well Plugging Plan of Operations for C-4144-POD13/POD46*

Greetings:

Enclosed is your copy of Well Plugging Plan of Operations for the above referenced project, which has been approved subject to the attached Specific Conditions of Approval. The following conditions of approval have been developed to ensure compliance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 13, 2017, by the State Engineer.

Aggrieval of this permit, or any of the conditions of approval therein, suspends the permit. No plugging operations shall occur while a permit is aggrieved.

Sincerely,

Claudia K. Guillen
Engineering Tech III
Water Resources Allocation Program

encl

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 264 of 713

Specific Conditions of Approval for C-4144-POD13-POD456

1) If groundwater is **not** encountered the borehole can be filled with drill cuttings or clean native fill up to 10 feet below ground surface. From 10 feet below ground surface to ground surface the borehole will be filled with bentonite. Bentonite chips shall be hydrated with 5 gallons of water per 50 pound sack.

2) The cement-bentonite slurry (bentonite powder) shall be mixed using a maximum of 5.2 gallons water per 94-lb sack Type II portland cement **PLUS** 0.65 gallons per 1% increase in bentonite up to a maximum 6% bentonite by dry weight ratio. Bentonite must be hydrated separately and then mixed.

   a) Grout shall be tremied from the bottom up.

3) A completed Plugging Record form shall be submitted no later than 30 days after completion of the plugging.

4) Before any attempts are made to plug this well, the O.S.E. District II Office shall be notified 48 hours in advance of the anticipated schedule for plugging, so that an O.S.E. representative has the opportunity to witness the procedures, if deemed necessary.

5) Any deviation from this plan must obtain an approved variance from this office prior to implementation.

6) Aggrieval of this permit, or any of the conditions of approval therein, suspends the permit. No plugging operations shall occur while a permit is aggrieved.

Witness my hand and seal this 24th day of March A.D., 2021

John R. D'Antonio Jr., P.E., State Engineer

By: _____
Claudia K. Guillen
Engineering Tech III

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 265 of 713

WELL PLUGGING PLAN OF OPERATIONS

NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: ☑ Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: SB-12 C-4144

Name of well owner: EOG Resources

Mailing address: 5509 Champions Drive County:

City: Midland State: Texas Zip code: 79706

Phone number: 432-848-9146 E-mail: James_kennedy@eogresources.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: White Drilling Company, Inc.

New Mexico Well Driller License No.: WD-1456 Expiration Date: 09-30-2022

IV. WELL INFORMATION: ☑ **Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.**

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 32° deg, 24' min, 09.21" sec
Longitude: -103° deg, 43' min, 21.72" sec, NAD 83

2) Reason(s) for plugging well(s):

These are soil borings are not going to be wells. The plugging plans are for in case we encounter groundwater.

3) Was well used for any type of monitoring program? no If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? unknown If yes, provide additional detail, including analytical results and/or laboratory report(s):

5) Static water level: unknown feet below land surface / feet above land surface (circle one)

6) Depth of the well: unknown feet

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 266 of 713

7) Inside diameter of innermost casing: 4-3/8' inches.

8) Casing material: n/a

9) The well was constructed with:

☐ an open-hole production interval, state the open interval: _____

☐ a well screen or perforated pipe, state the screened interval(s): _____

10) What annular interval surrounding the artesian casing of this well is cement-grouted? _____

11) Was the well built with surface casing? _____If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? _____ If yes, please describe:

12) Has all pumping equipment and associated piping been removed from the well? _____If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING:

☐ **If plugging method differs between multiple wells on same site, a separate form must be completed for each method.**

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:

Trimie grout from bottom up.

2) Will well head be cut-off below land surface after plugging? _____

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

1) For plugging intervals that employ cement grout, complete and attach Table A.

2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.

3) Theoretical volume of grout required to plug the well to land surface: 146 Gallons or 19.63 cf

4) Type of Cement proposed: Portland Cement w/5% Bentonite Grout - Type II

5) Proposed cement grout mix: 6 gallons of water per 94 pound sack of Portland cement.

6) Will the grout be: _____batch-mixed and delivered to the site

X mixed on site

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 267 of 713

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	0 feet		
Bottom of proposed interval of grout placement (ft bgl)	100 feet		
Theoretical volume of grout required per interval (gallons)	146 Gallons		
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	6 Gallons of Water		
Mixed on-site or batch-mixed and delivered?	On-Site		
Grout additive 1 requested	5% Bentonite Grout		
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement			

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 268 of 713

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 -- most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			
Bottom of proposed sealant of grout placement (ft bgl)			
Theoretical volume of sealant required per interval (gallons)			
Proposed abandonment sealant (manufacturer and trade name)			

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 269 of 713

NEW MEXICO OFFICE OF THE STATE ENGINEER

ATTACHMENT to WD-08 Plan of Plugging
MULTIPLE MONITORING WELL DESCRIPTIONS

This Attachment is to be completed if more than one (1) monitoring well is to be plugged using the same method.

Location (Required):

☒ NM State Plane (NAD83) (Feet) ☐ NM West Zone ☐ NM Central Zone ☒ NM East Zone	☒ UTM (NAD83) (Meters) ☒ Zone 13N ☐ Zone 12N	☒ Lat/Long (WGS84) (1/10th of second)	OTHER (allowable only for move-from descriptions - see application form for format) ☐ PLSS (quarters, section, township, range) ☐ Hydrographic Survey, Map & Tract ☐ Lot, Block & Subdivision ☐ Grant

OSE POD Number:	Other Well ID:	X or Longitude (ddmmss):	Y or Latitude (ddmmss):	Other Location Info (PLSS):	Casing ID- (inches):	Depth to Water- (ft bgs):	Total well Depth- (ft bgs):	Grout Volume:	Surface Casing (Y or N):
C-4144									
POD 15.	SB-13	-103°43'20.96"E	32°24'09.07"N				105-110ft	14 gal.	
" 16	SB-14	-103°43'21.85"E	32°24'08.65"N						
" 17	SB-15	-103°43'21.79"E	32°24'08.09"N						
" 18	SB-16	-103°43'20.99"E	32°24'08.03"N						
" 19	SB-17	-103°43'20.64"E	32°24'08.04"N						
" 20	SB-18	-103°43'21.20"E	32°24'13.89"N						
" 21	SB-19	-103°43'20.43"E	32°24'13.69"N						
" 22	SB-20	-103°43'21.14"E	32°24'13.25"N						
" 23	SB-21	-103°43'20.80"E	32°24'13.25"N						
" 24	SB-22	-103°43'19.89"E	32°24'13.57"N						
" 25	SB-23	-103°43'18.14"E	32°24'15.26"N						
" 26	SB-24	-103°43'18.21"E	32°24'14.62"N						

FOR OSE INTERNAL USE — Multiple Monitoring POD Descriptions, Form wr-08m (Rev 7/31/19)

File Number: C-4144	Trn Number: 690620
Trans Description (optional): Plg Plan	

Received by OCD: 2/28/2022 3:03:33 PM
Released to Imaging: 5/2/2022 3:32:26 PM

Page 270 of 713

NEW MEXICO OFFICE OF THE STATE ENGINEER

ATTACHMENT to WD-08 Plan of Plugging
MULTIPLE MONITORING WELL DESCRIPTIONS

This Attachment is to be completed if more than one (1) monitoring well is to be plugged using the same method.

Location (Required):

■ NM State Plane (NAD83) (Feet) ☐ NM West Zone ☐ NM Central Zone ■ NM East Zone	■ UTM (NAD83) (Meters) ■ Zone 13N ☐ Zone 12N	■ Lat/Long (WGS84) (1/10th of second)	OTHER (allowable only for move-from descriptions - see application form for format) ☐ PLSS (quarters, section, township, range) ☐ Hydrographic Survey, Map & Tract ☐ Lot, Block & Subdivision ☐ Grant

OSE POD Number: C-4144	Other Well ID:	X or Longitude (ddmmss):	Y or Latitude (ddmmss):	Other Location Info (PLSS):	Casing ID- (inches):	Depth to Water- (ft bgs):	Total well Depth- (ft bgs):	Grout Volume:	Surface Casing (Y or N):
POD 27	SB-25	-103°43'18.40"E	32°24'14.17"N				105-110 Ft	146 gal	
" 28	SB-26	-103°43'18.62"E	32°24'13.51"N						
" 29	SB-27	-103°43'18.85"E	32°24'12.90"N						
" 30	SB-28	-103°43'18.11"E	32°24'13.22"N						
" 31	SB-29	-103°43'17.42"E	32°24'14.55"N						
" 32	SB-30	-103°43'16.97"E	32°24'12.85"N						
" 33	SB-31	-103°43'15.44"E	32°24'13.72"N						
" 34	SB-32	-103°43'14.75"E	32°24'13.86"N						
" 35	SB-33	-103°43'16.05"E	32°24'11.77"N						
" 36	SB-34	-103°43'16.62"E	32°24'11.45"N						
" 37	SB-35	-103°43'17.73"E	32°24'11.83"N						
" 38	SB-36	-103°43'17.82"E	32°24'11.18"N						

FOR OSE INTERNAL USE — Multiple Montioring POD Descriptions, Form wr-08m (Rev 7/31/19)

File Number: C-4144	Trn Number: 690620
Trans Description (optional): Plg Plan	

Received by OCD: 2/28/2022 3:03:33 PM
Released to Imaging: 5/2/2022 3:32:26 PM

Page 271 of 713

NEW MEXICO OFFICE OF THE STATE ENGINEER

ATTACHMENT to WD-08 Plan of Plugging
MULTIPLE MONITORING WELL DESCRIPTIONS

This Attachment is to be completed if more than one (1) monitoring well is to be plugged using the same method.

Location (Required):

☒ NM State Plane (NAD83) (Feet) ☐ NM West Zone ☐ NM Central Zone ☒ NM East Zone	☒ UTM (NAD83) (Meters) ☒ Zone 13N ☐ Zone 12N	☒ Lat/Long (WGS84) (1/10th of second)	OTHER (allowable only for move-from descriptions - see application form for format) ☐ PLSS (quarters, section, township, range) ☐ Hydrographic Survey, Map & Tract ☐ Lot, Block & Subdivision ☐ Grant

OSE POD Number:	Other Well ID:	X or Longitude (ddmmss):	Y or Latitude (ddmmss):	Other Location Info (PLSS):	Casing ID- (inches):	Depth to Water- (ft bgs):	Total well Depth- (ft bgs):	Grout Volume:	Surface Casing (Y or N)
C-4144									
POD 39	SB-37	-103°43'18.73"E	32°24'11.17"N				105-110 Ft	14 Legal	(N)
" 40	SB-38	-103°43'18.71"E	32°24'10.67"N						
" 41	SB-39	-103°43'19.46"E	32°24'10.40"N						
" 42	SB-40	-103°43'17.69"E	32°24'11.09"N						
" 43	SB-41	-103°43'19.07"E	32°24'13.98"N						
" 44	SB-42	-103°43'18.64"E	32°24'14.79"N						
" 45	SB-43	-103°43'21.50"E	32°24'08.90"N						
" 46	SB-44	-103°43'21.53"E	32°24'07.79"N						
POD 13	PMW-10	-103°43'10.85" E	32°24'15.43"						
POD 14	PMW-11	-103°43'23.28" E	32°24'08.82" N						

FOR OSE INTERNAL USE — Multiple Montioring POD Descriptions, Form wr-08m (Rev 7/31/19)

File Number: C-4144 — Trn Number: 690620

Trans Description (optional): Plg Plan

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 272 of 713

File No. C-4144

NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL A WELL WITH NO WATER RIGHT

(check applicable box):

For fees, see State Engineer website: http://www.ose.state.nm.us/

Purpose:	☐	Pollution Control And/Or Recovery	☐	Ground Source Heat Pump	
☐ Exploratory Well (Pump test)	☐	Construction Site/Public Works Dewatering	☐	Other(Describe):	
☒ Monitoring Well	☐	Mine Dewatering			

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

☒ Temporary Request - Requested Start Date: 2/9/21 Requested End Date: TBD

Plugging Plan of Operations Submitted? ☒ Yes ☐ No

1. APPLICANT(S)

Name: EOG Resources	Name: GHD Services
Contact or Agent: check here if Agent ☐ James Kennedy	Contact or Agent: check here if Agent ☒ Charles Neligh
Mailing Address: 5509 Champions Drive	Mailing Address: 6121 Indian School Rd NE #200
City: Midland	City: Albuquerque
State: Texas Zip Code: 79706	State: New Mexico Zip Code: 87110
Phone: 432-848-9146 ☐ Home ☒ Cell Phone (Work):	Phone: 716-818-0224 ☐ Home ☒ Cell Phone (Work):
E-mail (optional): James_kennedy@eogresources.com	E-mail (optional): Charles.Neligh@ghd.com

FOR OSE INTERNAL USE Application for Permit, Form WR-07, Rev 11/17/16

File No.: C-4144	Trn. No.: 690620	Receipt No.: 2-43110
Trans Description (optional): MON		
Sub-Basin: CUB	PCW/LOG Due Date: 3/25/2022	

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 273 of 713

2. **WELL(S)** Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).
District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

■ NM State Plane (NAD83) (Feet)
☐ NM West Zone
■ NM East Zone
☐ NM Central Zone

■ UTM (NAD83) (Meters)
☐ Zone 12N
■ Zone 13N

■ Lat/Long (WGS84) (to the nearest 1/10th of second)

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (*Quarters or Halves , Section, Township, Range*) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
C-4144 POD12 PMW-10	-103°43'10.85" E	32°24'15.43"	T22s, R32E, Q7
C-4144 POD13 PMW-11	-103°43'23.28" E	32°24'08.82" N	T22S, R31E, Q12
C-4144 POD 14 SB-12	-103°43'21.72" E	32°24'09.21" N	T22s, R32E, Q7
C-4144 POD15 SB-13	-103°43'20.96"E	32°24'09.07"N	T22s, R32E, Q7
C-4144 POD 16 SB-14	-103°43'21.85"E	32°24'08.65"N	T22s, R32E, Q7

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
Additional well descriptions are attached: ■ Yes ☐ No **If yes, how many** 30

Other description relating well to common landmarks, streets, or other:
Aprox 10.5 miles south of us hwy 62/180

Well is on land owned by: BLM - Sundry included

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. **Attached?** ■ Yes ☐ No
If yes, how many 5

Approximate depth of well (feet): 105-110'BGS	Outside diameter of well casing (inches): 2"
Driller Name: White Drilling Co.	Driller License Number: WD-1456

3. **ADDITIONAL STATEMENTS OR EXPLANATIONS**

Well construction will be a 2-in dia. PVC casing with a 15-20 ft. 0.010-in slotted screen. Grade 10/20 silica sand pack will be placed in the annulus to 2 ft. above the screen. A 2ft. thick hydrated bentonite plug will be placed on top of the sand pack followed by cement/bentonite grout to the surface.

The soil borings will be advanced in order to help delineated the extent of the impact. If groundwater is encountered a monitoring well may be constructed.

the duration of planned monitoring will continue until NMOCD grants remedial Site closure.

FOR OSE INTERNAL USE — Application for Permit, Form WR-07

File No.: C-4144	Trn No.: 690620

Received by OCD: 2/28/2022 3:03:33 PM
Released to Imaging: 5/2/2022 3:32:26 PM

Page 274 of 713

SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory:	**Pollution Control and/or Recovery:**	**Construction De-Watering:**	**Mine De-Watering:**
☐ Include a description of any proposed pump test, if applicable.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for the pollution control or recovery operation ☐ The estimated maximum period of time for completion of the operation ☐ The annual diversion amount. ☐ The annual consumptive use amount. ☐ The maximum amount of water to be diverted and injected for the duration of the operation. ☐ The method and place of discharge	☐ Include a description of the proposed dewatering operation, ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted, ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water. ☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
Monitoring: ■ Include the reason for the monitoring well, and, ■ The duration of the planned monitoring.	☐ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system ☐ Proof of any permit required from the New Mexico Environment Department ☐ An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	**Ground Source Heat Pump:** ☐ Include a description of the geothermal heat exchange project, ☐ The number of boreholes for the completed project and required depths. ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Charles Neligh of GHD on behalf of EOG Resources
Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Charles Neligh — Digitally signed by Charles Neligh Date: 2021.02.11 14:45:32 -07'00'
Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is

☒ approved ☐ partially approved ☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 25 day of March 20 21, for the State Engineer.

John R. D'Antonio Jr., P.E., State Engineer

By: _____ Juan Hernandez
Signature Print

Title: Water Resources Manager I
Print

FOR OSE INTERNAL USE — Application for Permit, Form WR-07

File No.: C-4144	Trn No: 690620

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 275 of 713

NEW MEXICO OFFICE OF THE STATE ENGINEER

ATTACHMENT 1
POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

a. Is this a:	**b. Information on Attachment(s):**
☐ Move-From Point of Diversion(s) ☐ Move-To Point of Diversion(s)	Number of points of diversion involved in the application: 35 Total number of pages attached to the application: 5

☐ **Surface Point of Diversion** **OR** ☒ **Well**

Name of ditch, acequia, or spring:	
Stream or water course:	
Tributary of:	

c. Location (Required):
Required: Move to POD location coordinate must be either New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84)

NM State Plane (NAD83) (feet) NM West Zone ☐ NM Central Zone ☐ NM East Zone ☐	UTM (NAD83) (meters) Zone 13N ☐ Zone 12N ☐	☒ Lat/Long–(WGS84) 1/10th of second	OTHER (allowable only for move-from descriptions - see application form for format) ☒ PLSS (quarters, section, township, range) ☐ Hydrographic Survey, Map & Tract ☐ Lot, Block & Subdivision ☐ Grant
POD Number: C-4144 POD 17 SB-15	X or Longitude -103°43'21.79"E	Y or Latitude 32°24'08.09"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 POD 18 SB-16	X or Longitude -103°43'20.99"E	Y or Latitude 32°24'08.03"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 POD19 SB-17	X or Longitude -103°43'20.64"E	Y or Latitude 32°24'08.04"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 POD 20 SB-18	X or Longitude -103°43'21.20"E	Y or Latitude 32°24'13.89"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 POD 21 SB-19	X or Longitude -103°43'20.43"E	Y or Latitude 32°24'13.69"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 POD22 SB-20	X or Longitude -103°43'21.14"E	Y or Latitude 32°24'13.25"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 POD 23 SB-21	X or Longitude -103°43'20.80"E	Y or Latitude 32°24'13.25"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 POD24 SB-22	X or Longitude -103°43'19.89"E	Y or Latitude 32°24'13.57"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 POD25 SB-23	X or Longitude -103°43'18.14"E	Y or Latitude 32°24'15.26"N	Other Location Description: T22s, R32E, Q7

FOR OSE INTERNAL USE

Form wr-08
POD DESCRIPTIONS - ATTACHMENT 1

File Number: C-4144	Trn Number: 690620
Trans Description (optional): MON	

Received by OCD: 2/28/2022 3:03:33 PM
Released to Imaging: 5/2/2022 3:32:26 PM

Page 276 of 713

NEW MEXICO OFFICE OF THE STATE ENGINEER

ATTACHMENT 1
POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

a. Is this a:	**b. Information on Attachment(s):**
☐ Move-From Point of Diversion(s) ☐ Move-To Point of Diversion(s)	Number of points of diversion involved in the application: 35 Total number of pages attached to the application: 5

☐ **Surface Point of Diversion** **OR** ☒ **Well**

Name of ditch, acequia, or spring:	
Stream or water course:	
Tributary of:	

c. Location (Required):
Required: Move to POD location coordinate must be either New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84)

NM State Plane (NAD83) (feet) NM West Zone ☐ NM Central Zone ☐ NM East Zone ☐	UTM (NAD83) (meters) Zone 13N ☐ Zone 12N ☐	☒ Lat/Long–(WGS84) 1/10th of second	OTHER (allowable only for move-from descriptions - see application form for format) ☒ PLSS (quarters, section, township, range) ☐ Hydrographic Survey, Map & Tract ☐ Lot, Block & Subdivision ☐ Grant
POD Number: C-4144 SB-24 POD 26	X or Longitude: -103°43'18.21"E	Y or Latitude: 32°24'14.62"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 SB-25 POD 27	X or Longitude: -103°43'18.40"E	Y or Latitude: 32°24'14.17"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 SB-26 POD 28	X or Longitude: -103°43'18.62"E	Y or Latitude: 32°24'13.51"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 SB-27 POD 29	X or Longitude: -103°43'18.85"E	Y or Latitude: 32°24'12.90"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 SB-28 POD 30	X or Longitude: -103°43'18.11"E	Y or Latitude: 32°24'13.22"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 SB-29 POD 31	X or Longitude: -103°43'17.42"E	Y or Latitude: 32°24'14.55"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 SB-30 POD 32	X or Longitude: -103°43'16.97"E	Y or Latitude: 32°24'12.85"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 SB-31 POD 33	X or Longitude: -103°43'15.44"E	Y or Latitude: 32°24'13.72"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 SB-32 POD 34	X or Longitude: -103°43'14.75"E	Y or Latitude: 32°24'13.86"N	Other Location Description: T22s, R32E, Q7

FOR OSE INTERNAL USE

Form wr-08
POD DESCRIPTIONS - ATTACHMENT 1

File Number: C-4144	Trn Number: 690620
Trans Description (optional): MON	

Received by OCD: 2/28/2022 3:03:33 PM
Released to Imaging: 5/2/2022 3:32:26 PM

Page 277 of 713

NEW MEXICO OFFICE OF THE STATE ENGINEER

ATTACHMENT 1
POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

a. Is this a:	b. Information on Attachment(s):
☐ Move-From Point of Diversion(s) ☐ Move-To Point of Diversion(s)	Number of points of diversion involved in the application: 35 Total number of pages attached to the application: 5

☐ **Surface Point of Diversion** **OR** ☒ **Well**

Name of ditch, acequia, or spring:	
Stream or water course:	
Tributary of:	

c. Location (Required):
Required: Move to POD location coordinate must be either New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84)

NM State Plane (NAD83) (feet) NM West Zone ☐ NM Central Zone ☐ NM East Zone ☐	UTM (NAD83) (meters) Zone 13N ☐ Zone 12N ☐	☒ Lat/Long–(WGS84) 1/10th of second	OTHER (allowable only for move-from descriptions - see application form for format) ☒ PLSS (quarters, section, township, range) ☐ Hydrographic Survey, Map & Tract ☐ Lot, Block & Subdivision ☐ Grant
POD Number: C-4144 SB-33 POD35	X or Longitude -103°43'16.05"E	Y or Latitude 32°24'11.77"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 SB-34 POD 36	X or Longitude -103°43'16.62"E	Y or Latitude 32°24'11.45"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 SB-35 POD 37	X or Longitude -103°43'17.73"E	Y or Latitude 32°24'11.83"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 SB-36 POD 38	X or Longitude -103°43'17.82"E	Y or Latitude 32°24'11.18"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 SB-37 POD39	X or Longitude -103°43'18.73"E	Y or Latitude 32°24'11.17"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 SB-38 POD 40	X or Longitude -103°43'18.71"E	Y or Latitude 32°24'10.67"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 SB-39 POD 41	X or Longitude -103°43'19.46"E	Y or Latitude 32°24'10.40"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 SB-40 POD 42	X or Longitude -103°43'17.69"E	Y or Latitude 32°24'11.09"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 SB-41 POD 43	X or Longitude -103°43'19.07"E	Y or Latitude 32°24'13.98"N	Other Location Description: T22s, R32E, Q7

FOR OSE INTERNAL USE

Form wr-08
POD DESCRIPTIONS - ATTACHMENT 1

File Number: C-4144	Trn Number: 690620
Trans Description (optional): MON	

Received by OCD: 2/28/2022 3:03:33 PM
Released to Imaging: 5/2/2022 3:32:26 PM

Page 278 of 713

NEW MEXICO OFFICE OF THE STATE ENGINEER

ATTACHMENT 1
POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

a. Is this a:	**b. Information on Attachment(s):**
☐ Move-From Point of Diversion(s) ☐ Move-To Point of Diversion(s)	Number of points of diversion involved in the application: 35 Total number of pages attached to the application: 5

☐ **Surface Point of Diversion** **OR** ☒ **Well**

Name of ditch, acequia, or spring:	
Stream or water course:	
Tributary of:	

c. Location (Required):
Required: Move to POD location coordinate must be either New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84)

NM State Plane (NAD83) (feet) NM West Zone ☐ NM Central Zone ☐ NM East Zone ☒	UTM (NAD83) (meters) Zone 13N ☒ Zone 12N ☐	☒ Lat/Long–(WGS84) 1/10th of second	OTHER (allowable only for move-from descriptions - see application form for format) ☒ PLSS (quarters, section, township, range) ☐ Hydrographic Survey, Map & Tract ☐ Lot, Block & Subdivision ☐ Grant
POD Number: C-4144 SB-42 POD 44	X or Longitude: -103°43'18.64"E	Y or Latitude: 32°24'14.79"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 SB-43 POD 45	X or Longitude: -103°43'21.50"E	Y or Latitude: 32°24'08.90"N	Other Location Description: T22s, R32E, Q7
POD Number: C-4144 SB-44 POD 46	X or Longitude: -103°43'21.53"E	Y or Latitude: 32°24'07.79"N	Other Location Description: T22s, R32E, Q7
POD Number:	X or Longitude:	Y or Latitude:	Other Location Description:
POD Number:	X or Longitude:	Y or Latitude:	Other Location Description:
POD Number:	X or Longitude:	Y or Latitude:	Other Location Description:
POD Number:	X or Longitude:	Y or Latitude:	Other Location Description:
POD Number:	X or Longitude:	Y or Latitude:	Other Location Description:
POD Number:	X or Longitude:	Y or Latitude:	Other Location Description:

FOR OSE INTERNAL USE

Form wr-08
POD DESCRIPTIONS - ATTACHMENT 1

File Number: C-4144	Trn Number: 690420
Trans Description (optional): MON	

Received by OCD: 2/28/2022 3:03:33 PM
Released to Imaging: 5/2/2022 3:32:26 PM

Page 279 of 713

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

17-1A Depth of the well shall not exceed the thickness of the valley fill.

17-4 No water shall be appropriated and beneficially used under this permit.

17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

Trn Desc: C 04144 POD12-46

File Number: C 04144
Trn Number: 690620

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 280 of 713

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.

17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.
The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.

17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.

17-Q The State Engineer retains jurisdiction over this permit.

17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

LOG The Point of Diversion C 04144 POC28 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD12 must be completed and the Well Log filed on or before 03/25/2022.

Trn Desc: C 04144 POD12-46

File Number: C 04144
Trn Number: 690620

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 281 of 713

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion C 04144 POD13 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD14 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD15 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD16 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD17 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD18 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD19 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD20 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD21 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD22 must be completed and the Well Log filed on or before 03/25/2022.

Received by OCD: 2/28/2022 3:03:33 PM
Released to Imaging: 5/2/2022 3:32:26 PM

Page 282 of 713

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion C 04144 POD23 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD24 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD25 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD26 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD27 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD29 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD30 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD31 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD32 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD33 must be completed and the Well Log filed on or before 03/25/2022.

Received by OCD: 2/28/2022 3:03:33 PM
Released to Imaging: 5/2/2022 3:32:26 PM

Page 283 of 713

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion C 04144 POD34 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD35 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD36 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD37 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD38 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD39 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD40 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD41 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD42 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD43 must be completed and the Well Log filed on or before 03/25/2022.

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 284 of 713

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion C 04144 POD44 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD45 must be completed and the Well Log filed on or before 03/25/2022.

LOG The Point of Diversion C 04144 POD46 must be completed and the Well Log filed on or before 03/25/2022.

IT IS THE PERMITTEES RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd: Date Rcvd. Corrected:
Formal Application Rcvd: 03/10/2021 Pub. of Notice Ordered:
Date Returned - Correction: Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 25 day of Mar A.D., 2021

John R. D Antonio, Jr., P.E. , State Engineer

By: JUAN HERNADEZ

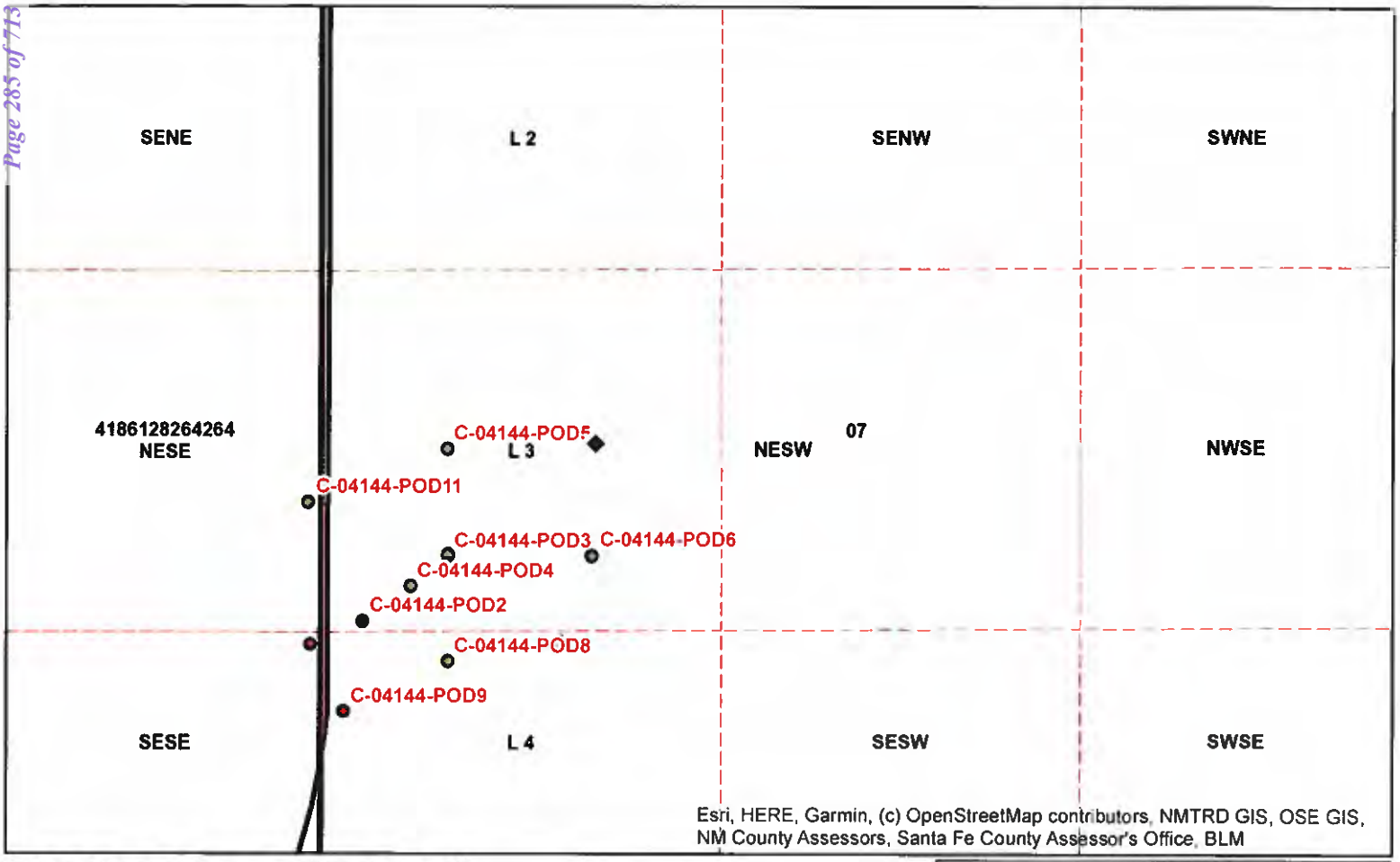
Trn Desc: C 04144 POD12-46

File Number: C 04144
Trn Number: 690620

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 285 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620404.534

Northing 3585969.590

State Plane - NAD 83 (f) - Zone E

Easting 730727.515

Northing 511352.185

Degrees Minutes Seconds

Latitude 32 : 24 : 15.430000

Longitude -103 : 43 : 10.850000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028

ft

0 185 370 740

N

GUILLEN 3/23/2021

Office of the State Engineer

Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately represent the source data used in their preparation, however a degree of error is inherent in all maps and these maps may contain omissions and errors or scale resolution, feature selection, positional accuracy, development methodology, interpretation of source data, and other circumstances.
These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area:C
CUB

Land Grant:
Not in Land Grant

Restrictions:
NA

PLSS Description
SW NE NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address:null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD12

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

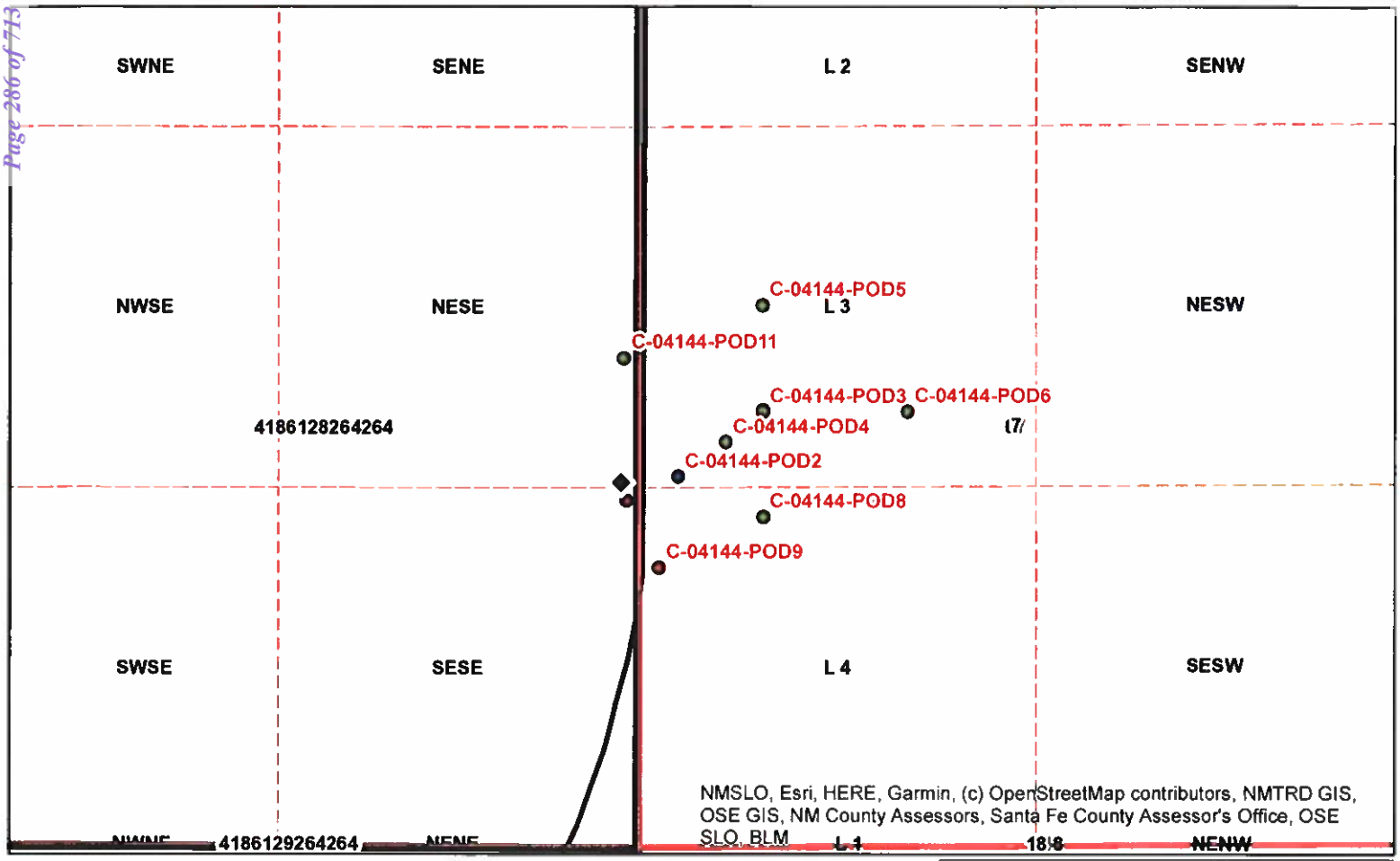
Purpose: MON

- Coord Search Location
- OSE GIS WATERS PODs
  - Active
  - Pending
  - Plugged
- Chaves County Parcels 2020
- Eddy County Parcels 2020
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 3/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 286 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620082.236

Northing 3585762.152

State Plane - NAD 83 (f) - Zone E

Easting 729665.704

Northing 510678.108

Degrees Minutes Seconds

Latitude 32 : 24 : 8.820000

Longitude -103 : 43 : 23.280000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028

ft

0 185 370 740

N

GUILLEN 3/23/2021

Office of the State Engineer
Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately represent the source data used in their preparation, however a degree of error is inherent in all maps. And these maps do not contain definitions and errors in scale, resolution, rectification, positional accuracy, development methodology, interpretation of source data, and other circumstances.
These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Eddy

Groundwater Basin: Carlsbad

Abstract Area:C
CUB

Land Grant:
Not in Land Grant

Restrictions:

NA

PLSS Description

SESENESE Qtr of Sec 12 of 022S 031E

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum: 4186128264264

Parcel Owner: BUREAU OF LAND

Address: null null null

Legal: Quarter: NE S: 12 T: 22S R: 31E Quarter: NW S: 12 T: 22S R: 31E Quarter: SW S: 12 T: 22S R: 31E Quarter: SE S: 12 T: 22S R: 31E ALL MAP# 280-12 LOC CARLSBAD EXEMPT

POD Information

Owner: EOG/GHD

File Number: C-4144 POD13

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose: MON

Coord Search Location

GIS WATERS PODs

Active

Pending

Plugged

New Mexico State Trust Lands

Subsurface Estate

Surface Estate

Both Estates

Chaves County Parcels 2020

Eddy County Parcels 2020

Sections

BLM Land Grant

PLSSTownship

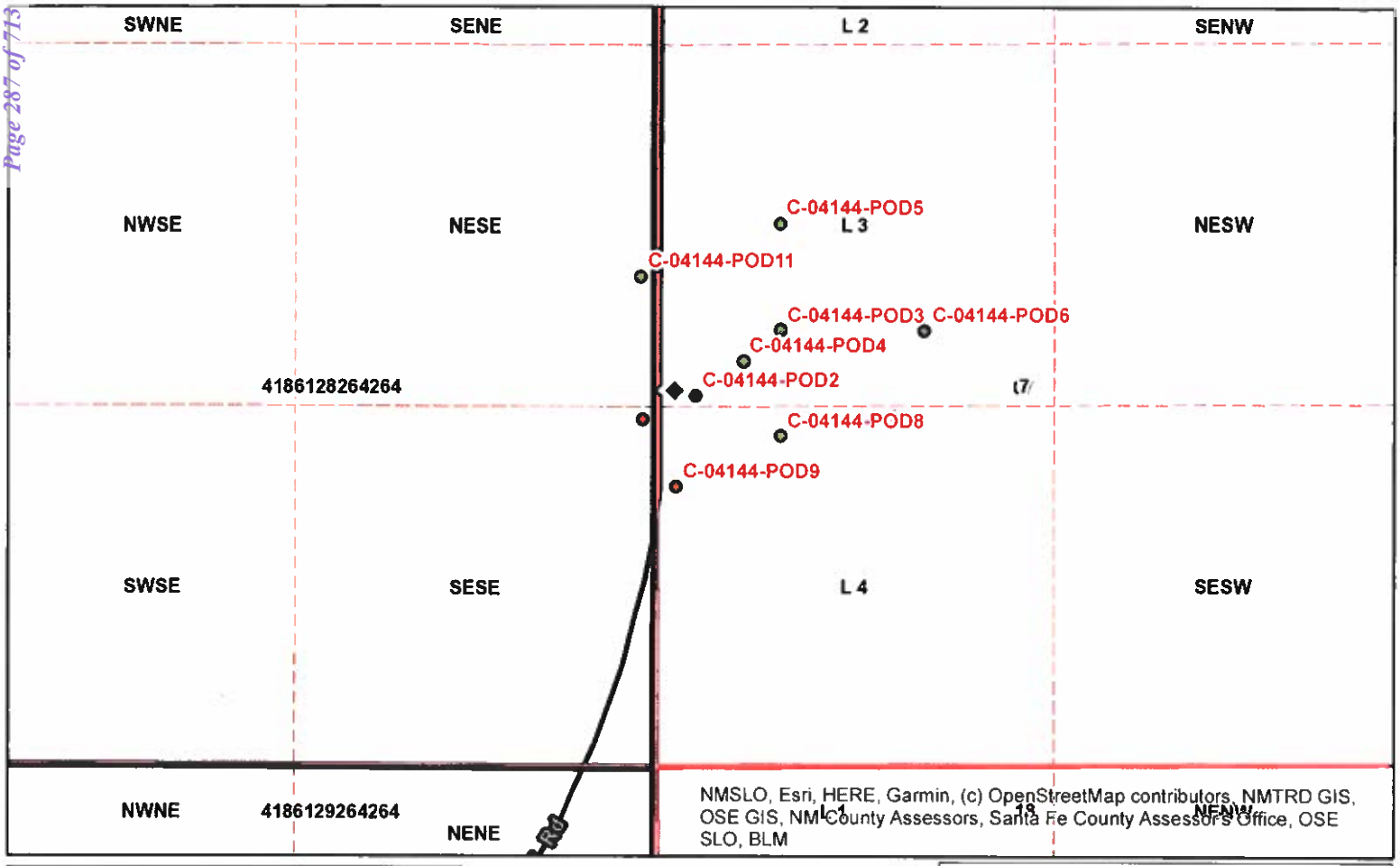
PLSSFirstDiv...

PLSSSecond...

Received by OCD: 2/28/2022 8:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 287 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620122.848

Northing 3585774.649

State Plane - NAD 83 (f) - Zone E

Easting 729799.221

Northing 510718.284

Degrees Minutes Seconds

Latitude 32 : 24 : 9.210000

Longitude -103 : 43 : 21.720000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028

ft

0 185 370 740

N

GUILLEN 3/23/2021

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to ensure that these maps accurately interpret the source data used in their preparation, however a degree of error is inherent in all maps and these maps may contain omissions and errors in the interpretation, modification, graphical and query development methodology, interpretation of source data, and other circumstances.
These maps are distributed AS IS without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area:C

CUB

Land Grant:

Not in Land Grant

Restrictions:

NA

PLSS Description

SW SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address: null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD14

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

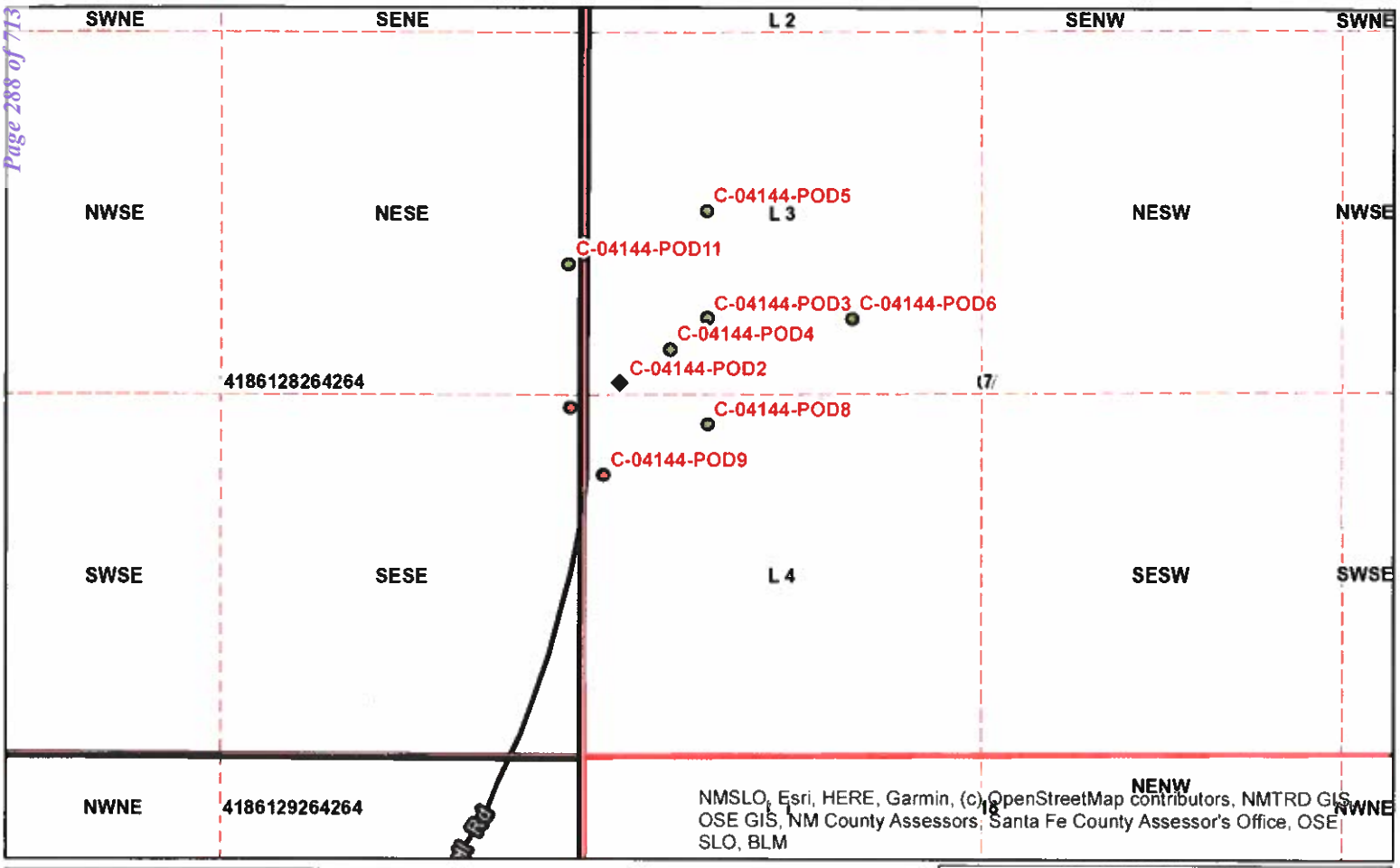
Purpose: MON

- Coord Search Location
- **GIS WATERS PODs**
  - Active
  - Pending
  - Plugged
- **New Mexico State Trust Lands**
  - Subsurface Estate
  - Surface Estate
  - Both Estates
- Chaves County Parcels 2020
- Eddy County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 288 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620142.755

Northing 3585770.575

State Plane - NAD 83 (f) - Zone E

Easting 729864.457

Northing 510704.508

Degrees Minutes Seconds

Latitude 32 : 24 : 9.070000

Longitude -103 : 43 : 20.960000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028

ft

0 185 370 740

N

GUILLEN 3/23/2021

Office of the State Engineer

Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately interpret the source data used in their preparation, however a degree of error is inherent in all maps, and these maps may contain some errors and should not be used for navigation, real estate boundaries or any other purpose requiring precision. The OSE makes no warranty, representation or guarantee as to the content, accuracy, timeliness or completeness of any of the data provided and assumes no liability for any decisions made or actions taken or not taken by the user of these maps or data. These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area: C
CUB

Land Grant:
Not in Land Grant

Restrictions:
NA

PLSS Description
SW SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address: null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD15

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

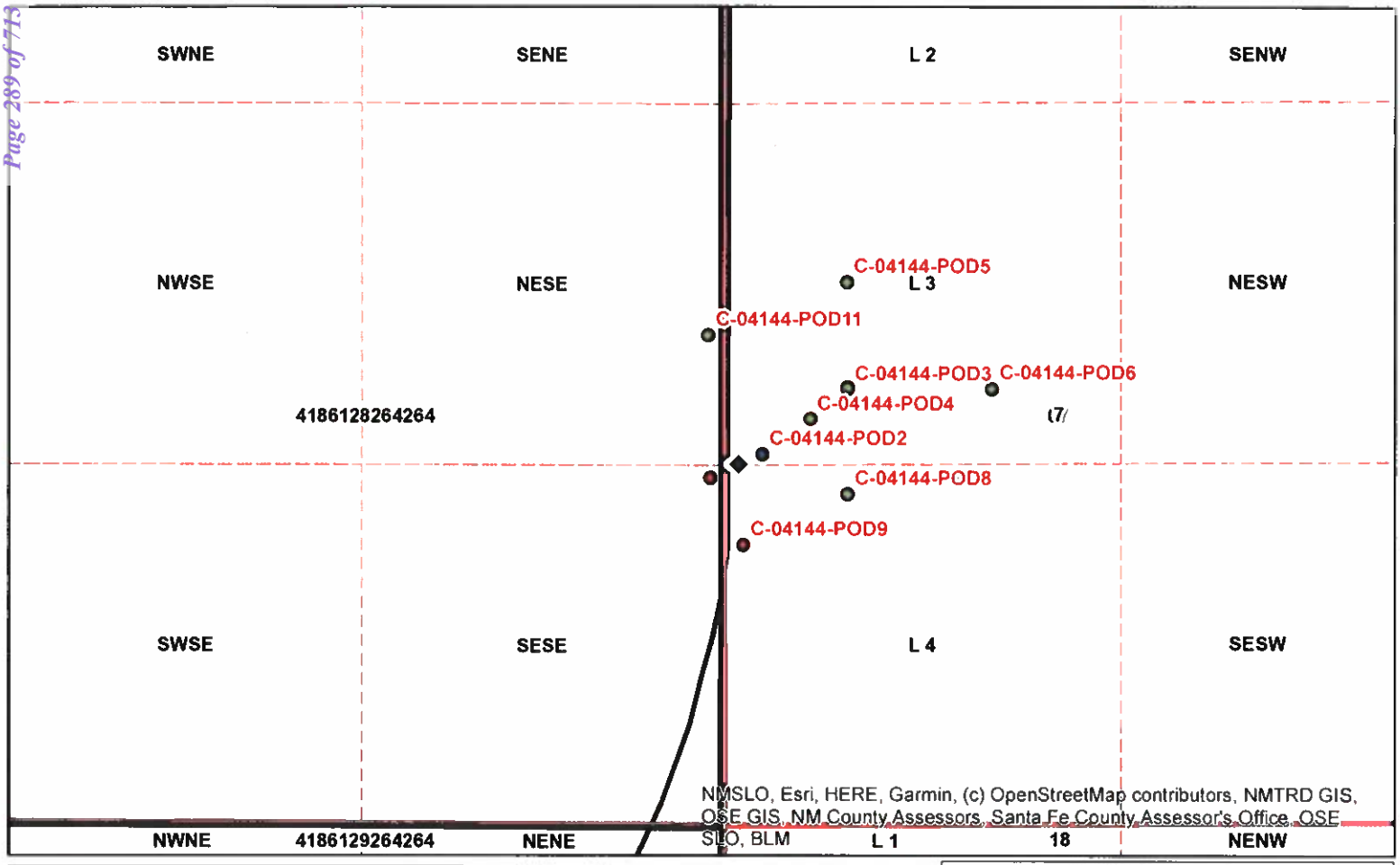
Purpose: MON

- Coord Search Location
- **GIS WATERS PODs**
  - Active
  - Pending
  - Plugged
- **New Mexico State Trust Lands**
  - Subsurface Estate
  - Surface Estate
  - Both Estates
- Chaves County Parcels 2020
- Eddy County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 289 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620119.658

Northing 3585757.364

State Plane - NAD 83 (f) - Zone E

Easting 729788.399

Northing 510661.629

Degrees Minutes Seconds

Latitude 32 : 24 : 8.650000

Longitude -103 : 43 : 21.850000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028

ft

0 185 370 740

N

GUILLEN 3/23/2021

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area:C

CUB

Land Grant:

Not in Land Grant

Restrictions:

NA

PLSS Description

NW NW SW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address:null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD16

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose: MON

◆ Coord Search Location

GIS WATERS PODs

● Active

● Pending

● Plugged

New Mexico State Trust Lands

Subsurface Estate

Surface Estate

Both Estates

Chaves County Parcels 2020

Eddy County Parcels 2020

Sections

BLM Land Grant

PLSSTownship

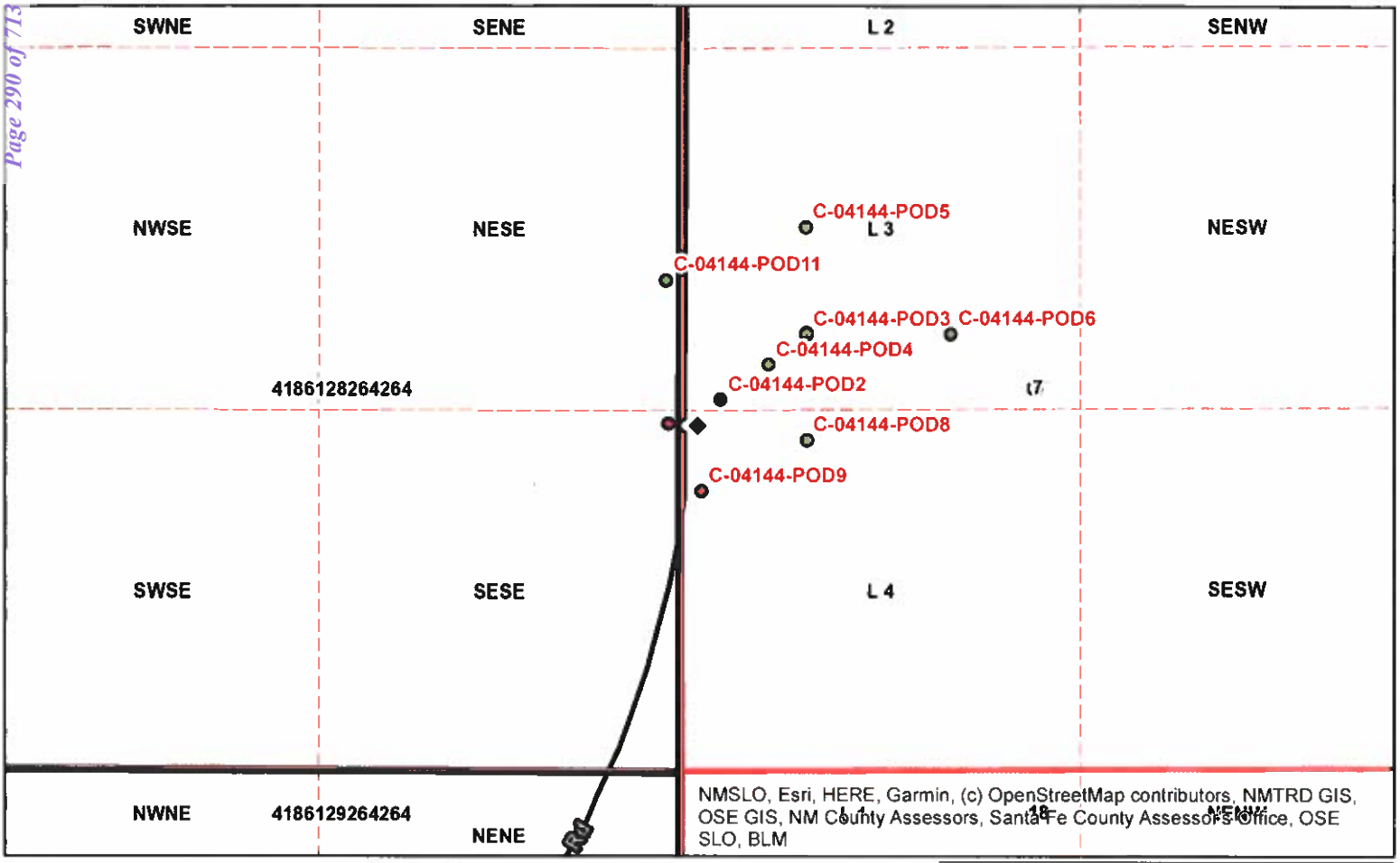
PLSSFirstDiv...

PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 290 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620121.431

Northing 3585740.137

State Plane - NAD 83 (f) - Zone E

Easting 729793.866

Northing 510605.067

Degrees Minutes Seconds

Latitude 32 : 24 : 8.090000

Longitude -103 : 43 : 21.790000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028

ft

0 185 370 740

N

GUILLEN 3/23/2021

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps and underlying interpreted the source data used in their preparation, however, a degree of error is inherent in all maps, and these maps may contain some errors and is not error free. Resolution, verification, positional accuracy, data usage and methodology are limited by the source data and other constraints. These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area:C
CUB

Land Grant:
Not in Land Grant

Restrictions:
NA

PLSS Description
NW NW SW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address:null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD17

POD Status: NoData

Permit Status: NoData

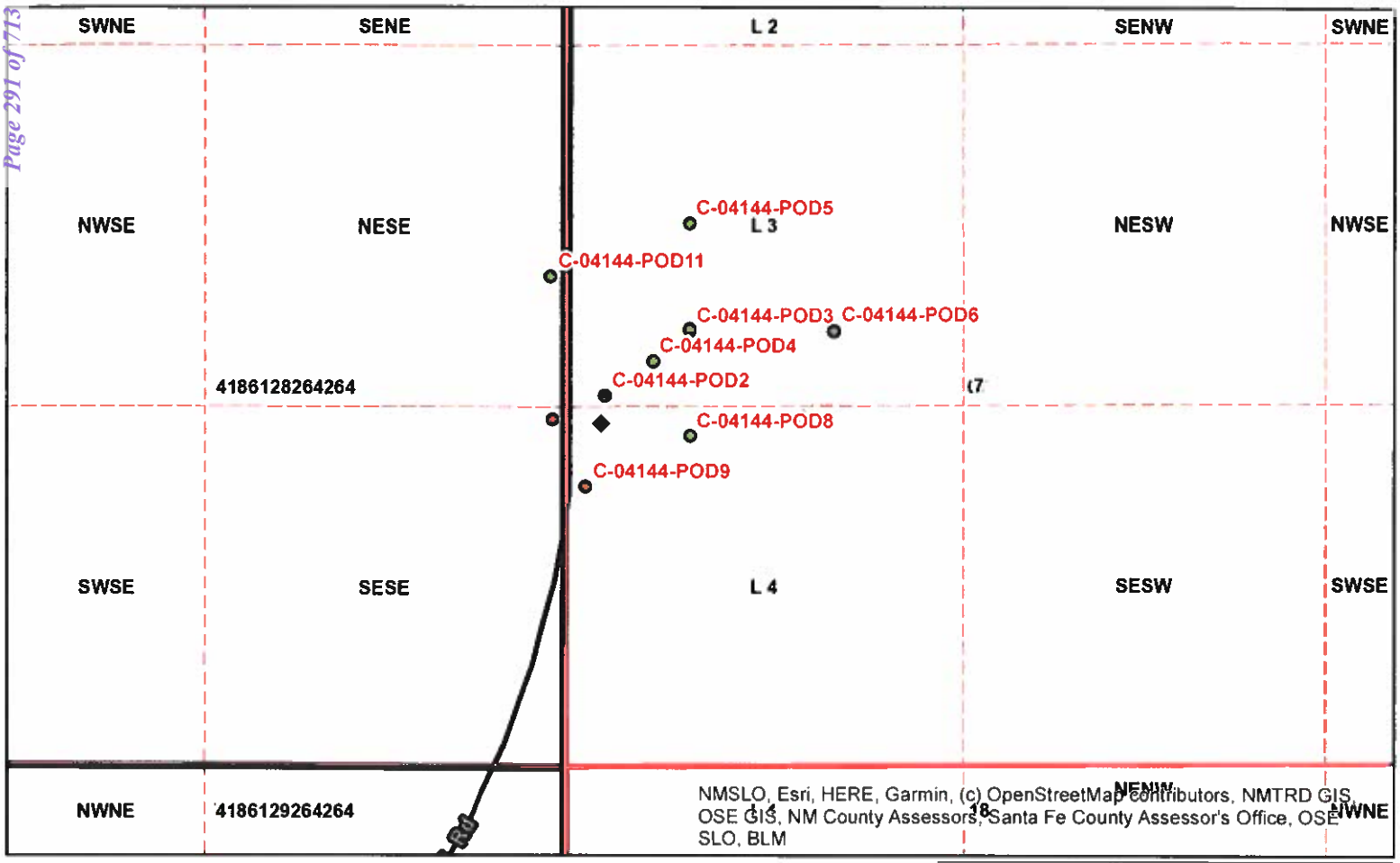
Permit Use: NoData

Purpose: MON

- Coord Search Location
- **GIS WATERS PODs**
  - Active
  - Pending
  - Plugged
- **New Mexico State Trust Lands**
  - Subsurface Estate
  - Surface Estate
  - Both Estates
- Chaves County Parcels 2020
- Eddy County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620142.354

Northing 3585738.539

State Plane - NAD 83 (f) - Zone E

Easting 729862.486

Northing 510599.395

Degrees Minutes Seconds

Latitude 32 : 24 : 8.030000

Longitude -103 : 43 : 20.990000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028

ft

0 185 370 740

N

GUILLEN 3/23/2021

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area:C

CUB

Land Grant:

Not in Land Grant

Restrictions:

NA

PLSS Description

NW NW SW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address:null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD18

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

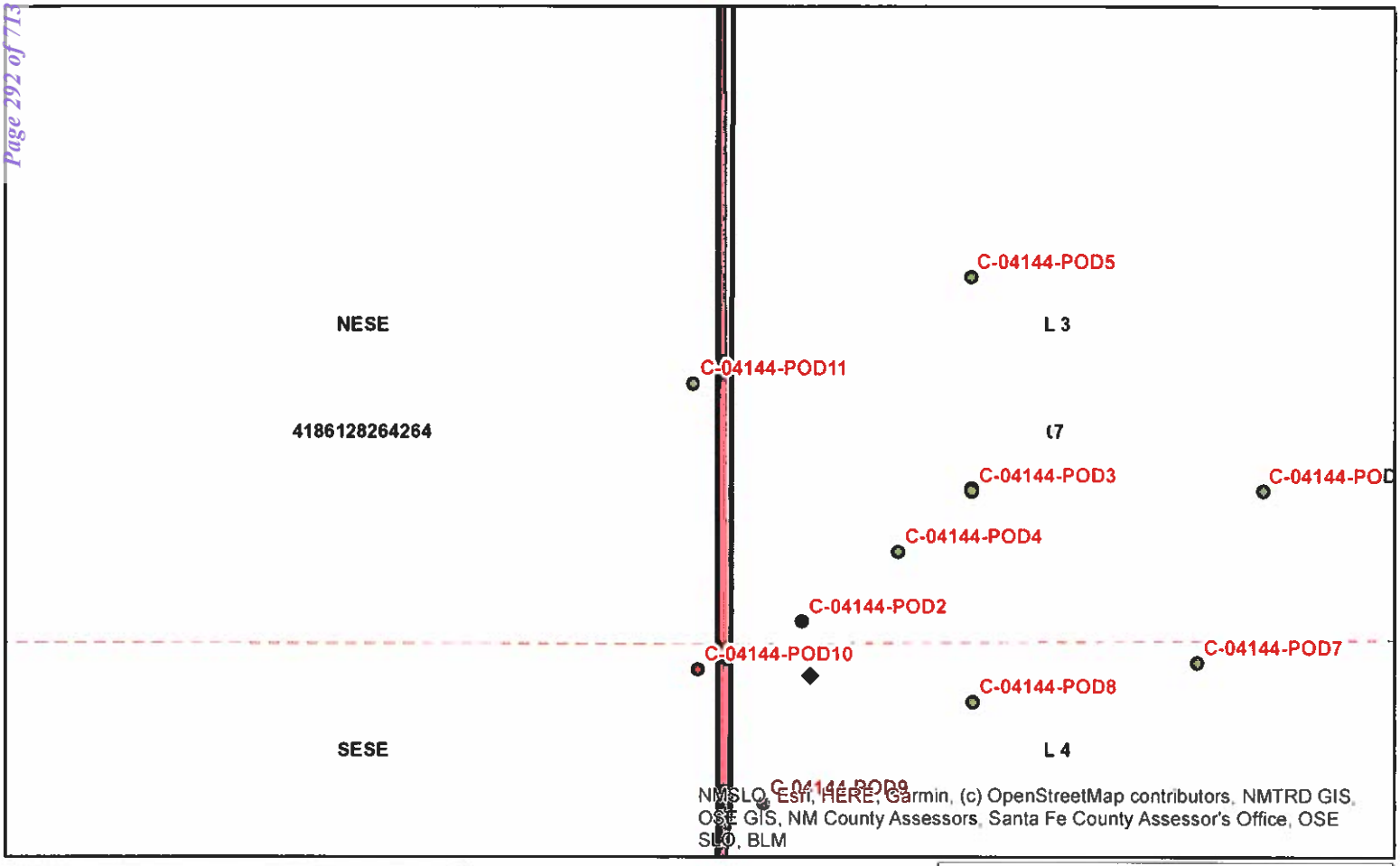
Purpose: MON

- Coord Search Location
- GIS WATERS PODs
  - Active
  - Pending
  - Plugged
- New Mexico State Trust Lands
  - Subsurface Estate
  - Surface Estate
  - Both Estates
- Chaves County Parcels 2020
- Eddy County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 292 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620151.494

Northing 3585738.957

State Plane - NAD 83 (f) - Zone E

Easting 729892.486

Northing 510600.577

Degrees Minutes Seconds

Latitude 32 : 24 : 8.040000

Longitude -103 : 43 : 20.640000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:4,514

ft

0 90 180 360

N

GUILLEN 3/23/2021

Office of the State Engineer

Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately interpret the source data used in their preparation, however a degree of error is inherent in all maps, and these maps may contain errors of omission, interpretation, scale, accuracy, currency, or otherwise. The OSE makes no warranty, expressed or implied, concerning the existence or absence of any features portrayed on these maps or the accuracy or completeness of the information shown. The OSE shall not be liable for any damages, including but not limited to, direct, indirect, special, consequential, or any other damages, arising from the use of these maps. These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area:C
CUB

Land Grant:
Not in Land Grant

Restrictions:
NA

PLSS Description
NW NW SW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address: null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD19

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

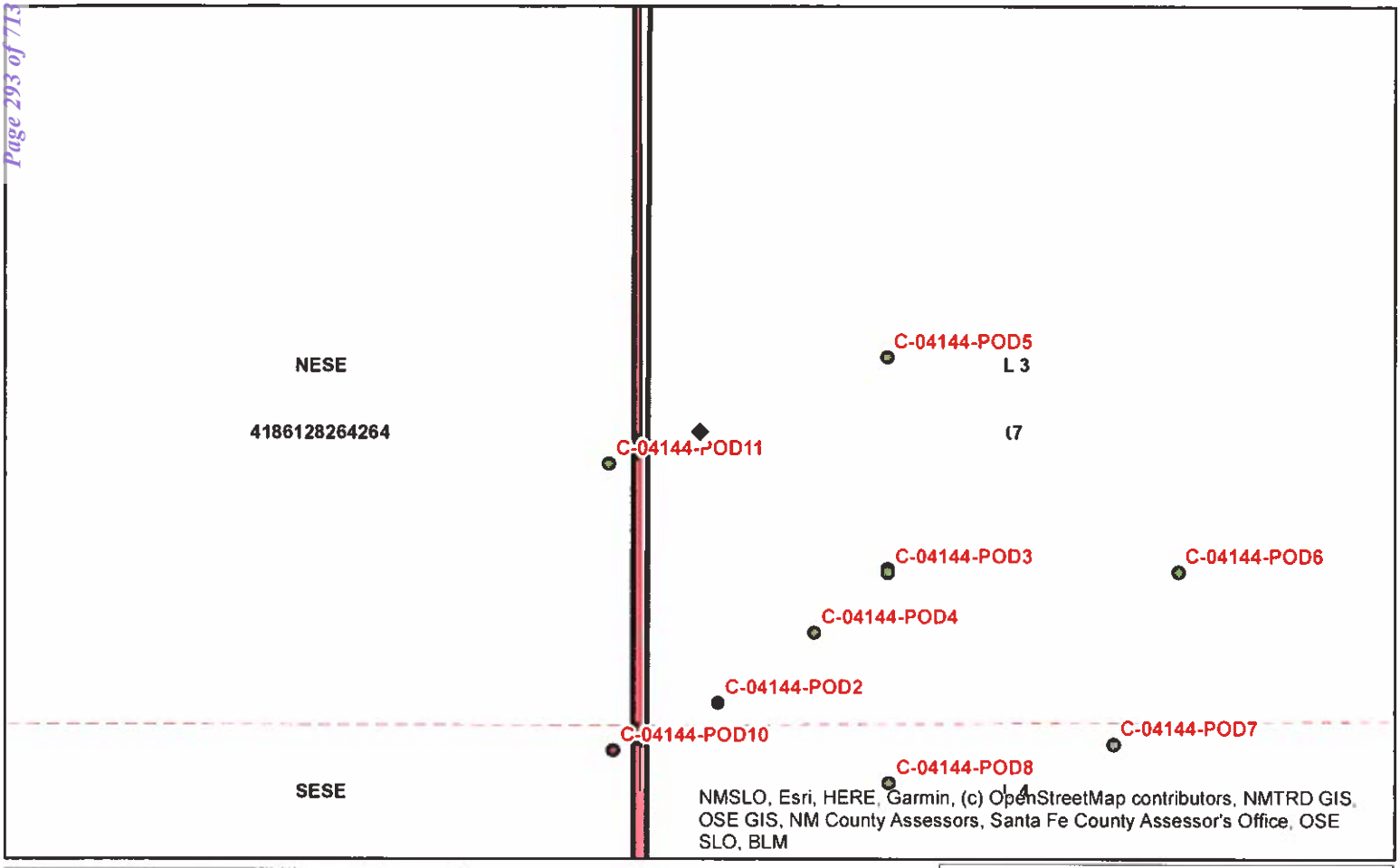
Purpose: MON

- Coord Search Location
- **OSE WATERS PODs**
  - Active
  - Pending
  - Plugged
- **New Mexico State Trust Lands**
  - Subsurface Estate
  - Surface Estate
  - Both Estates
- Chaves County Parcels 2020
- Eddy County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 293 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620134.711

Northing 3585918.931

State Plane - NAD 83 (f) - Zone E

Easting 729841.099

Northing 511191.478

Degrees Minutes Seconds

Latitude 32 : 24 : 13.890000

Longitude -103 : 43 : 21.200000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:4,514

ft

0 90 180 360

N

GUILLEN 3/23/2021

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area:C
CUB

Land Grant:
Not in Land Grant

Restrictions:
NA

PLSS Description
NW SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address:null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD20

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

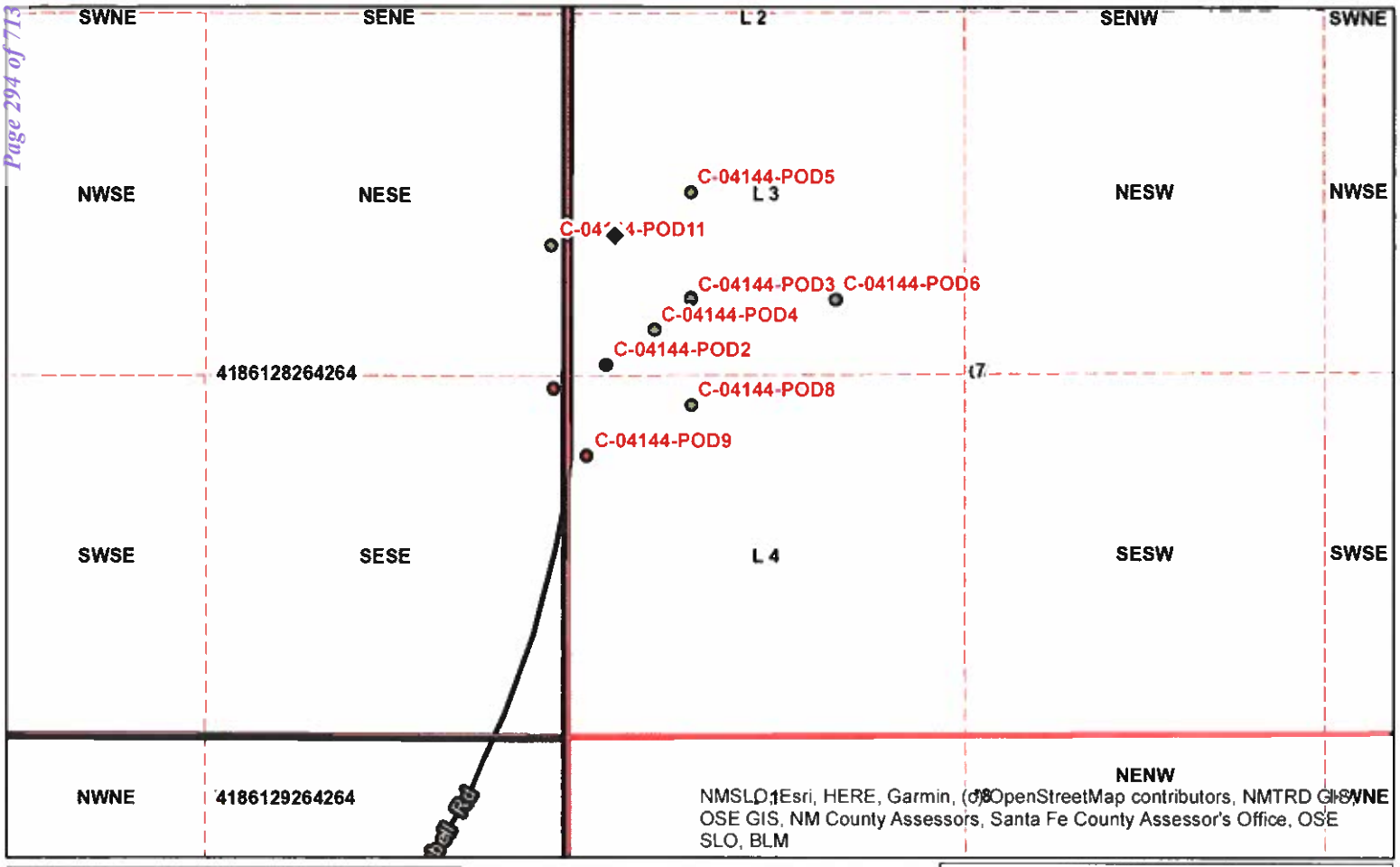
Purpose: MON

- Coord Search Location
- OSE WATERS PODs
  - Active
  - Pending
  - Plugged
- New Mexico State Trust Lands
  - Subsurface Estate
  - Surface Estate
  - Both Estates
- Chaves County Parcels 2020
- Eddy County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 294 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620154.901

Northing 3585913.013

State Plane - NAD 83 (f) - Zone E

Easting 729907.227

Northing 511171.644

Degrees Minutes Seconds

Latitude 32 : 24 : 13.690000

Longitude -103 : 43 : 20.430000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028

ft

0 185 370 740

N

GUIILLEN 3/23/2021

Office of the State Engineer

Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately represent the source data used in their preparation, however, a degree of error is inherent in all maps, and this is especially true of maps showing dynamic features such as water resources. Additional errors may occur due to scale, projection, rectification, positional accuracy, data development methodology, interpretation of source data, and other circumstances.

These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area:C

CUB

Land Grant:

Not in Land Grant

Restrictions:

NA

PLSS Description

NW SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address:null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD21

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

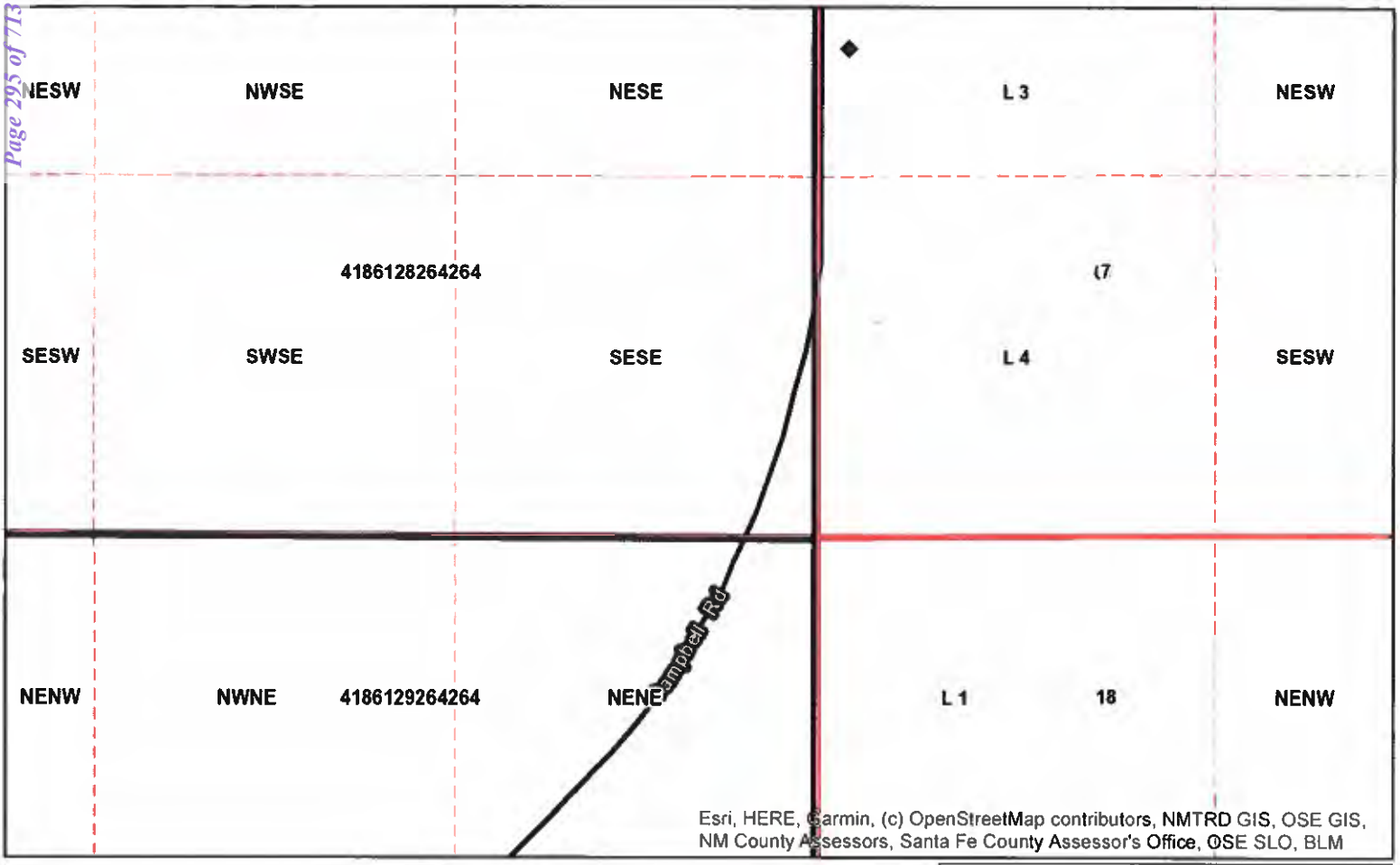
Purpose: MON

- Coord Search Location
- GIS WATERS PODs
  - Active
  - Pending
  - Plugged
- New Mexico State Trust Lands
  - Subsurface Estate
  - Surface Estate
  - Both Estates
- Chaves County Parcels 2020
- Eddy County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 295 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13
Easting 620136.514
Northing 3585899.241

State Plane - NAD 83 (f) - Zone E
Easting 729846.612
Northing 511126.832

Degrees Minutes Seconds
Latitude 32 : 24 : 13.250000
Longitude -103 : 43 : 21.140000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028

ft
0 185 370 740

N

GUILLEN 3/24/2021

Office of the State Engineer
Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer to verify that these maps accurately interpret the source data used in their preparation and/or a degree of error is inherent in all maps. While these maps may contain some and other spatial inaccuracies due to scale, resolution, rectification, positional accuracy, data entry, methodology, and other sources of error. These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea
Groundwater Basin: Carlsbad
Abstract Area: C
CUB
Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
NW SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS. Qtr Sec locations are calculated and are only approximations

Parcel Information

UPC/DocNum:
Parcel Owner:
Address: null null null null null null
Legal:

POD Information

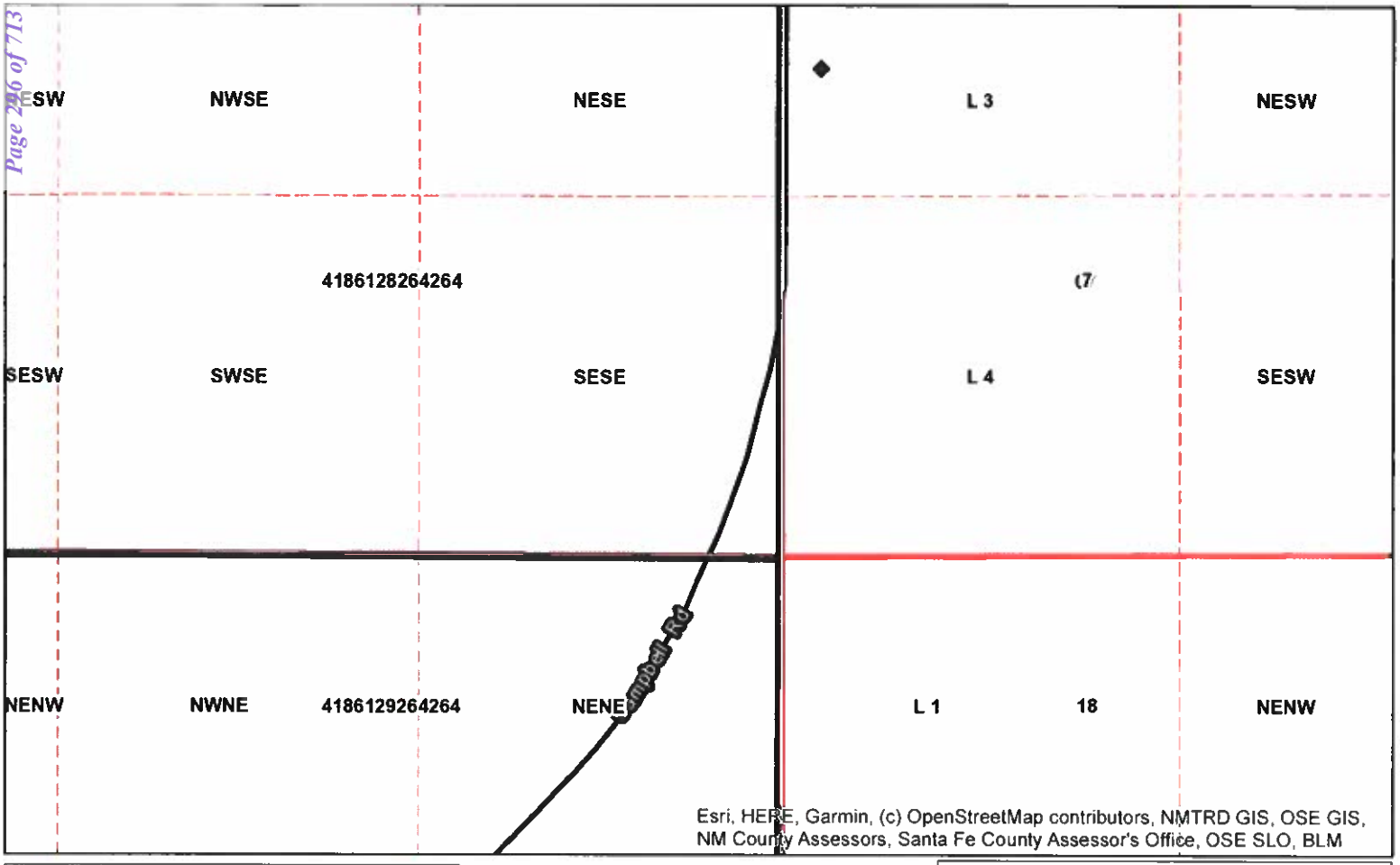
Owner: EOG/GHD
File Number: C-4144 POD22
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 296 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620145.396

Northing 3585899.348

State Plane - NAD 83 (f) - Zone E

Easting 729875.761

Northing 511126.999

Degrees Minutes Seconds

Latitude 32 : 24 : 13.250000

Longitude -103 : 43 : 20.800000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028

ft

0 185 370 740

N

GUILLEN 3/24/2021

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately represent the source data used in their preparation, however a degree of error is inherent in all maps, and these maps may contain omissions and errors in scale, resolution, feature detail, positional accuracy, data entry methodology, interpretation of source data, and other parameters.
These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area:C
CUB

Land Grant:
Not in Land Grant

Restrictions:
NA

PLSS Description
NW SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address:null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD23

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

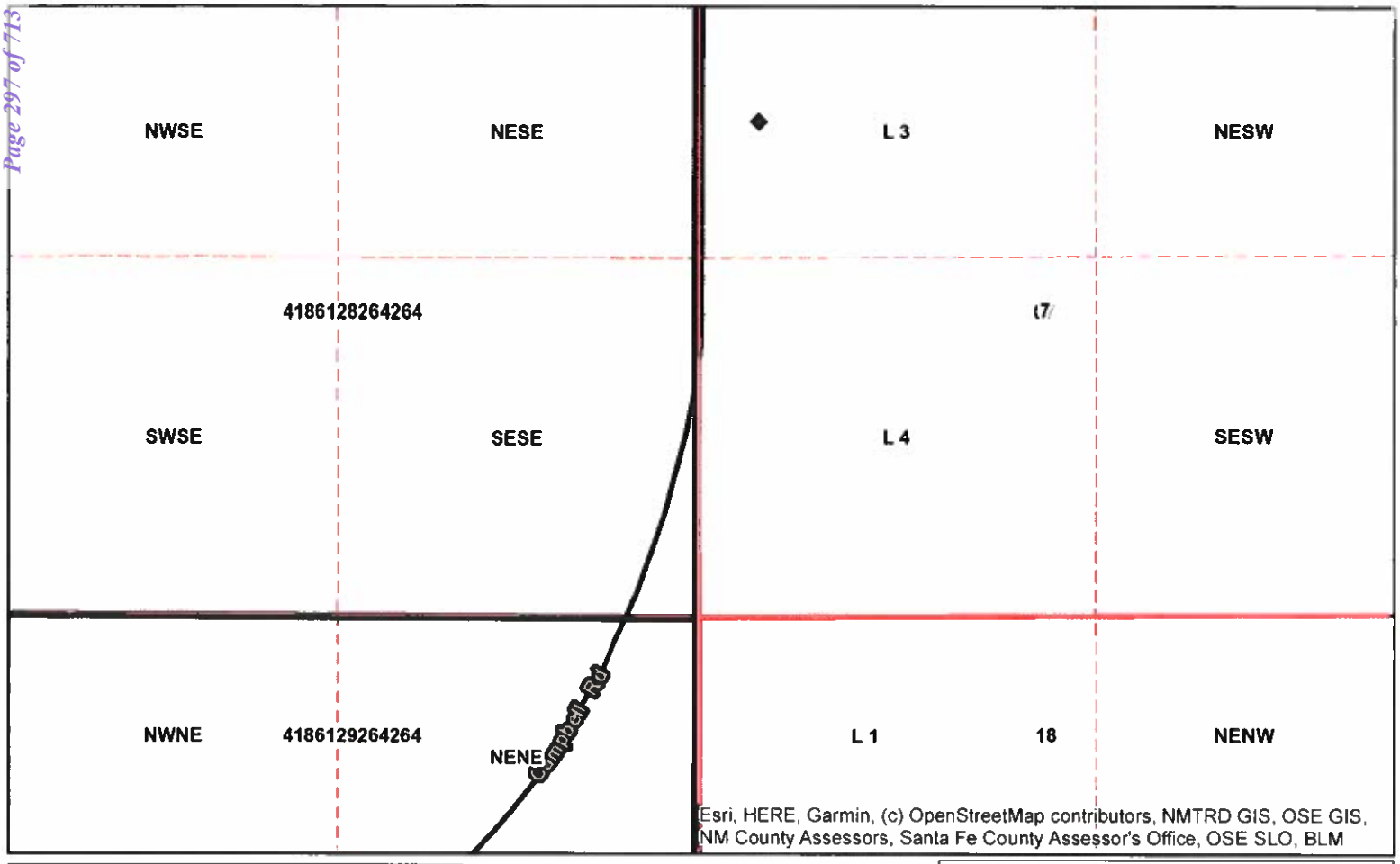
Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 297 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620169.052

Northing 3585909.486

State Plane - NAD 83 (f) - Zone E

Easting 729953.591

Northing 511159.782

Degrees Minutes Seconds

Latitude 32 : 24 : 13.570000

Longitude -103 : 43 : 19.890000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028

ft

0 185 370 740

N

GUILLEN 3/24/2021

Office of the State Engineer nm Interstate Stream Commission

Readers are advised that the New Mexico Office of the State Engineer (OSE) is not responsible for the accuracy or reliability of the data contained on these maps. These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area:C

CUB

Land Grant:

Not in Land Grant

Restrictions:

NA

PLSS Description

NW SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS - Qtr Sec locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address:null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD 24

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

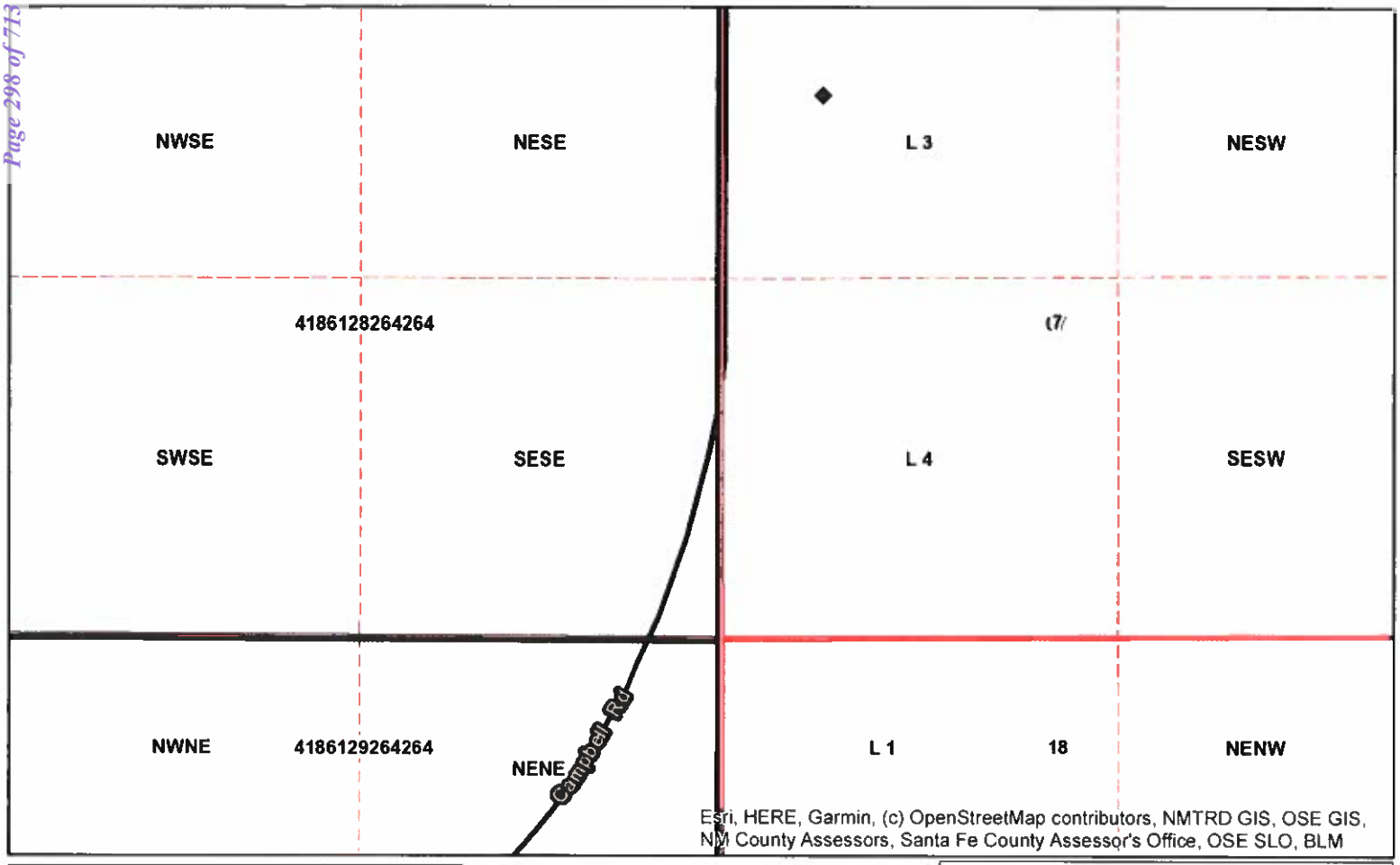
Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 298 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620214.148

Northing 3585962.076

State Plane - NAD 83 (f) - Zone E

Easting 730102.642

Northing 511331.424

Degrees Minutes Seconds

Latitude 32 : 24 : 15.260000

Longitude -103 : 43 : 18.140000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028

ft

0 185 370 740

N

GUILLEN 3/24/2021

Office of the State Engineer

Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately interpret the source data used in their preparation, however a degree of error is inherent in all maps and these maps may contain omissions or inaccuracies. Recipient assumes all responsibility for appropriate and independent evaluation of these maps for its intended use. The OSE assumes no responsibility for any decision made by others in reliance thereon. These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area: C
CUB

Land Grant:
Not in Land Grant

Restrictions:

NA

PLSS Description

SE NW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address: null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4122 POD25

POD Status: NoData

Permit Status: NoData

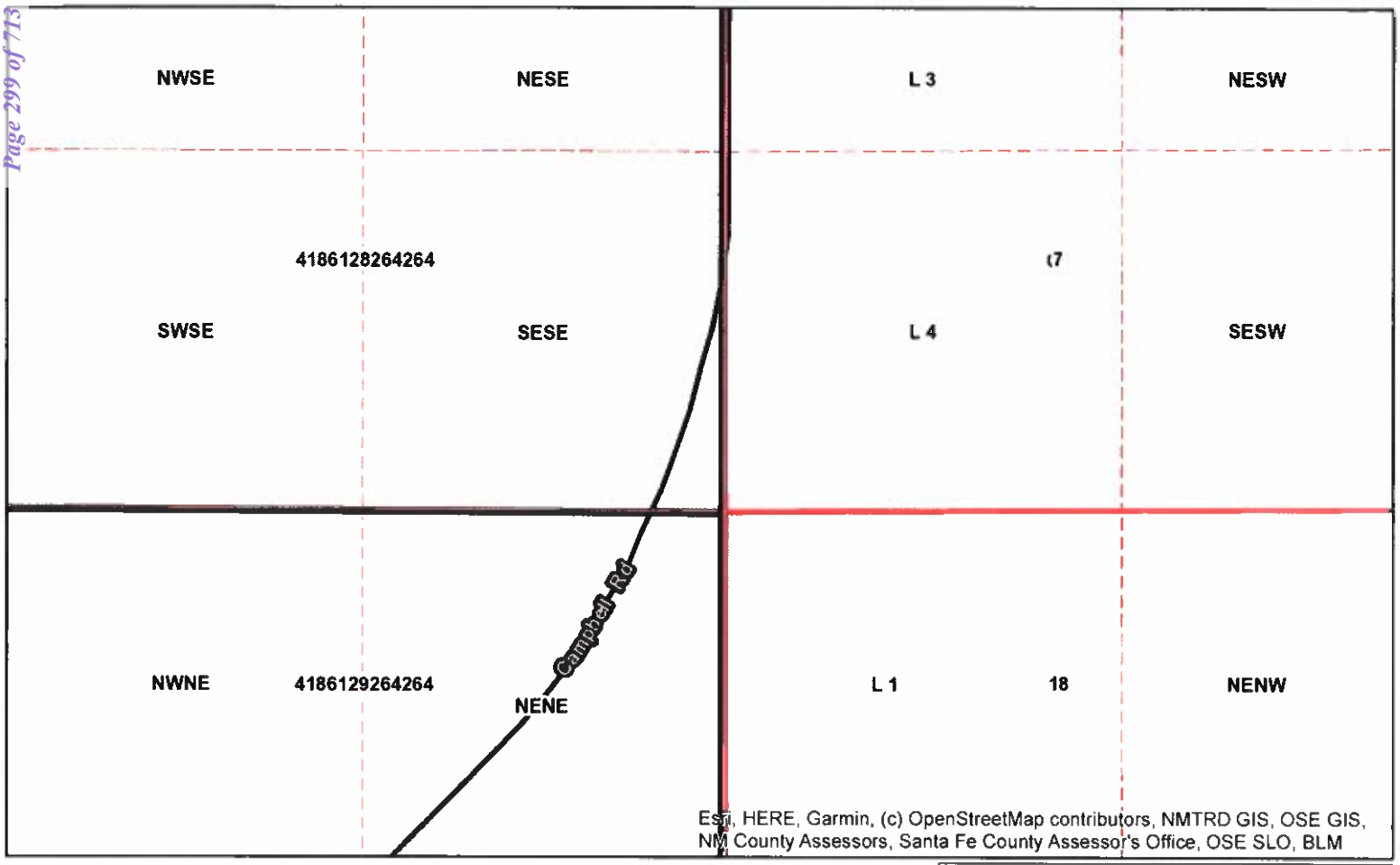
Permit Use: NoData

Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 8:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620212.555

Northing 3585942.345

State Plane - NAD 83 (f) - Zone E

Easting 730097.011

Northing 511266.714

Degrees Minutes Seconds

Latitude 32 : 24 : 14.620000

Longitude -103 : 43 : 18.210000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028

ft

0 185 370 740

N

GUILLEN 3/24/2021

Office of the State Engineer nm Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer, OSE, to verify that these maps accurately interpret the source data used in their preparation, however a degree of error is inherent in all maps, and these maps may contain interpretive and mapping errors as well as data compilation, rectification, positional accuracy, development methodology, interpretation of source data, and other circumstances.

These maps are distributed AS IS without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area:C

CUB

Land Grant:

Not in Land Grant

Restrictions:

NA

PLSS Description

NE SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address:null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD26

POD Status: NoData

Permit Status: NoData

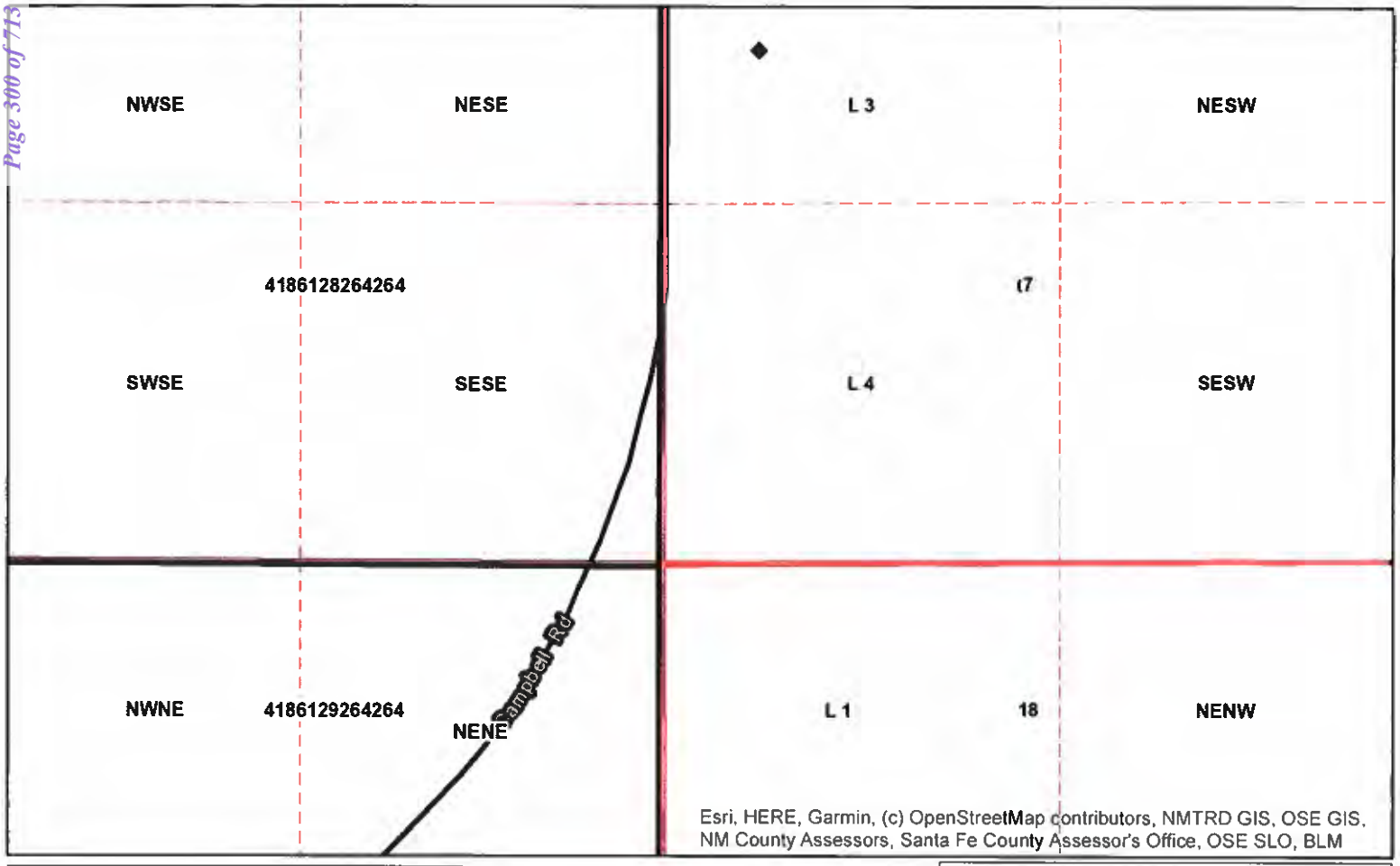
Permit Use: NoData

Purpose: MON

- Eddy County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620207.757

Northing 3585928.428

State Plane - NAD 83 (f) - Zone E

Easting 730080.982

Northing 511221.146

Degrees Minutes Seconds

Latitude 32 : 24 : 14.170000

Longitude -103 : 43 : 18.400000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028

ft

0 185 370 740

N

GUILLEN 3/24/2021

Office of the State Engineer

Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer, OSE, to verify that these maps accurately represent the source data used in their preparation, however, a degree of error is inherent in all data and these maps may contain omissions and inaccuracies. Verification, rectification, positional accuracy, development methodology, interpretation of source data, and other circumstances.
These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area:C

CUB

Land Grant:

Not in Land Grant

Restrictions:

NA

PLSS Description

NE SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address:null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD27

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

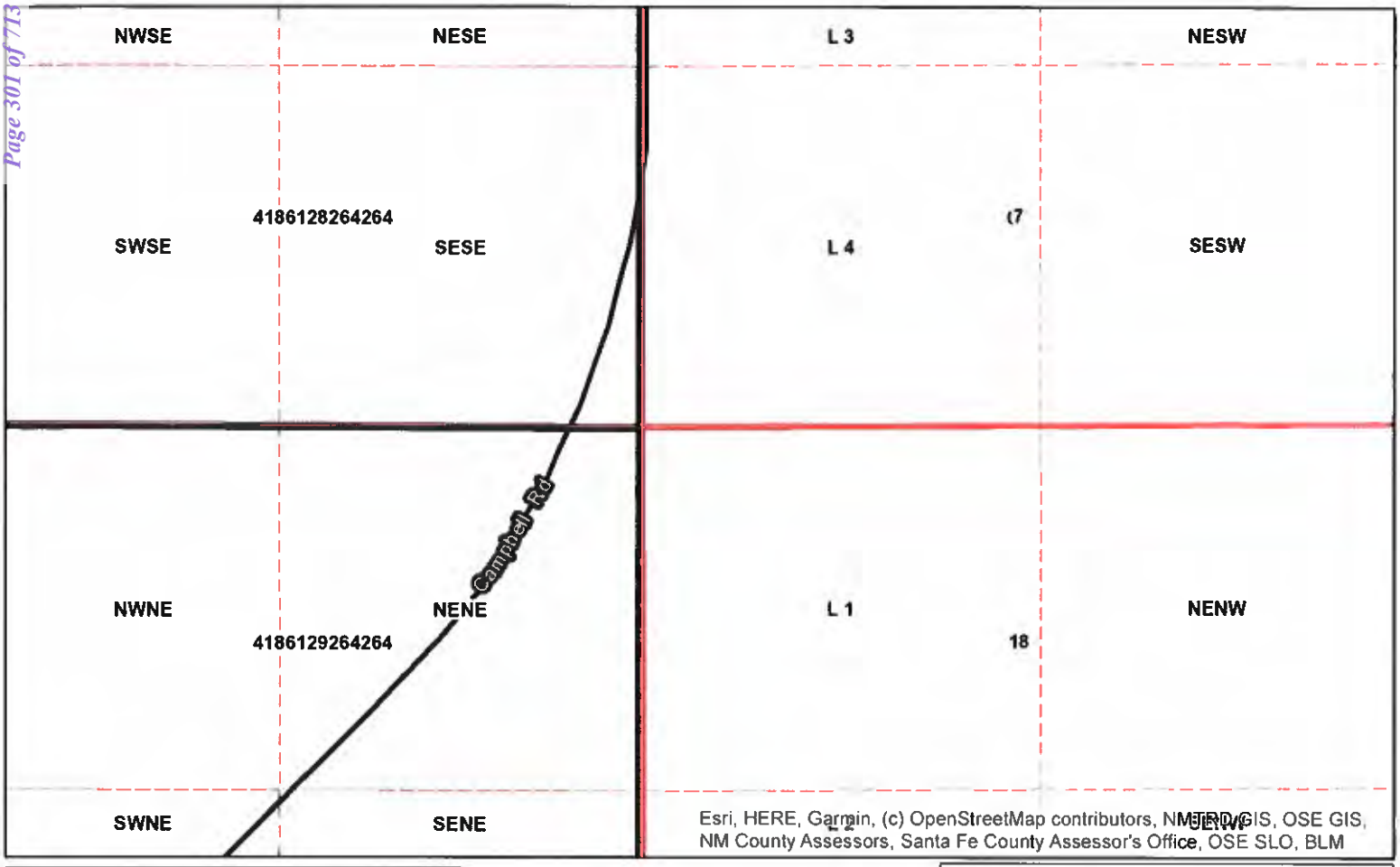
Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 301 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620202.253

Northing 3585908.035

State Plane - NAD 83 (f) - Zone E

Easting 730062.503

Northing 511154.341

Degrees Minutes Seconds

Latitude 32 : 24 : 13.510000

Longitude -103 : 43 : 18.620000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028

ft

0 185 370 740

N

GUILLEN 3/24/2021

Office of the State Engineer
Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately represent the source data used in their preparation, however a degree of error is inherent in all maps, and these maps may contain omissions or inaccuracies due to generalization, projection inaccuracy, data alignment methodology, the omission of source data, and other circumstances.
These maps are distributed "AS IS" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area:C
CUB

Land Grant:
Not in Land Grant

Restrictions:
NA

PLSS Description
NW SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address:null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD28

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

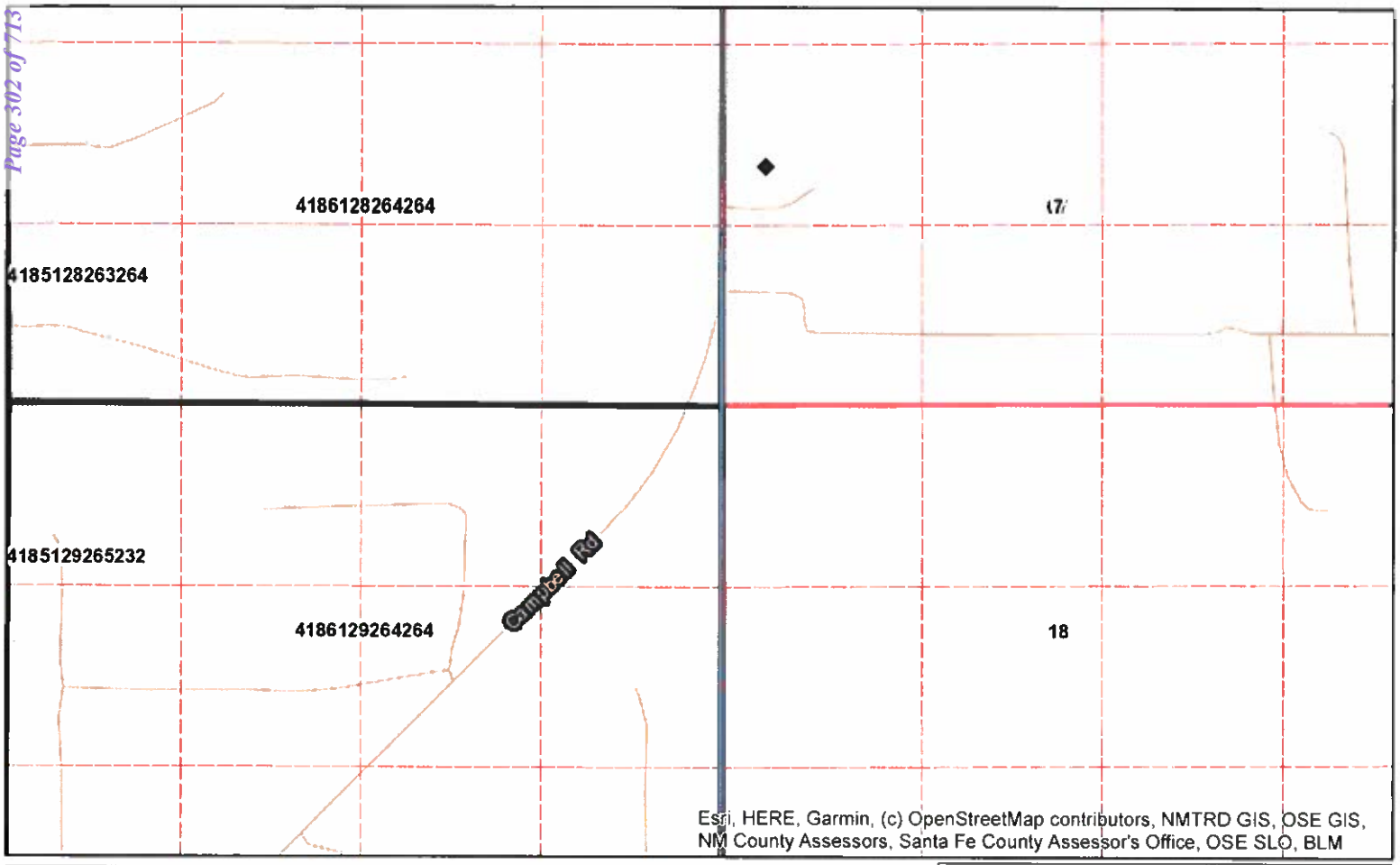
Purpose: MON

- Eddy County Parcels 2020
- Lea County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 302 of 715



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620196.468

Northing 3585889.178

State Plane - NAD 83 (f) - Zone E

Easting 730043.138

Northing 511092.585

Degrees Minutes Seconds

Latitude 32 : 24 : 12.900000

Longitude -103 : 43 : 18.850000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:18,056

mi

0 0.05 0.1 0.2

N

GUILLEN 3/24/2021

Office of the State Engineer nm Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer to verify this data. However, the OSE does not warrant the accuracy or reliability of the data contained herein. This data is provided "as is" without warranty of any kind, either expressed or implied, including but not limited to warranties of merchantability or fitness for a particular purpose. The OSE shall not be liable for any damages arising from the use of this data.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area:C

CUB

Land Grant:

Not in Land Grant

Restrictions:

NA

PLSS Description

NW SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address:null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD29

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

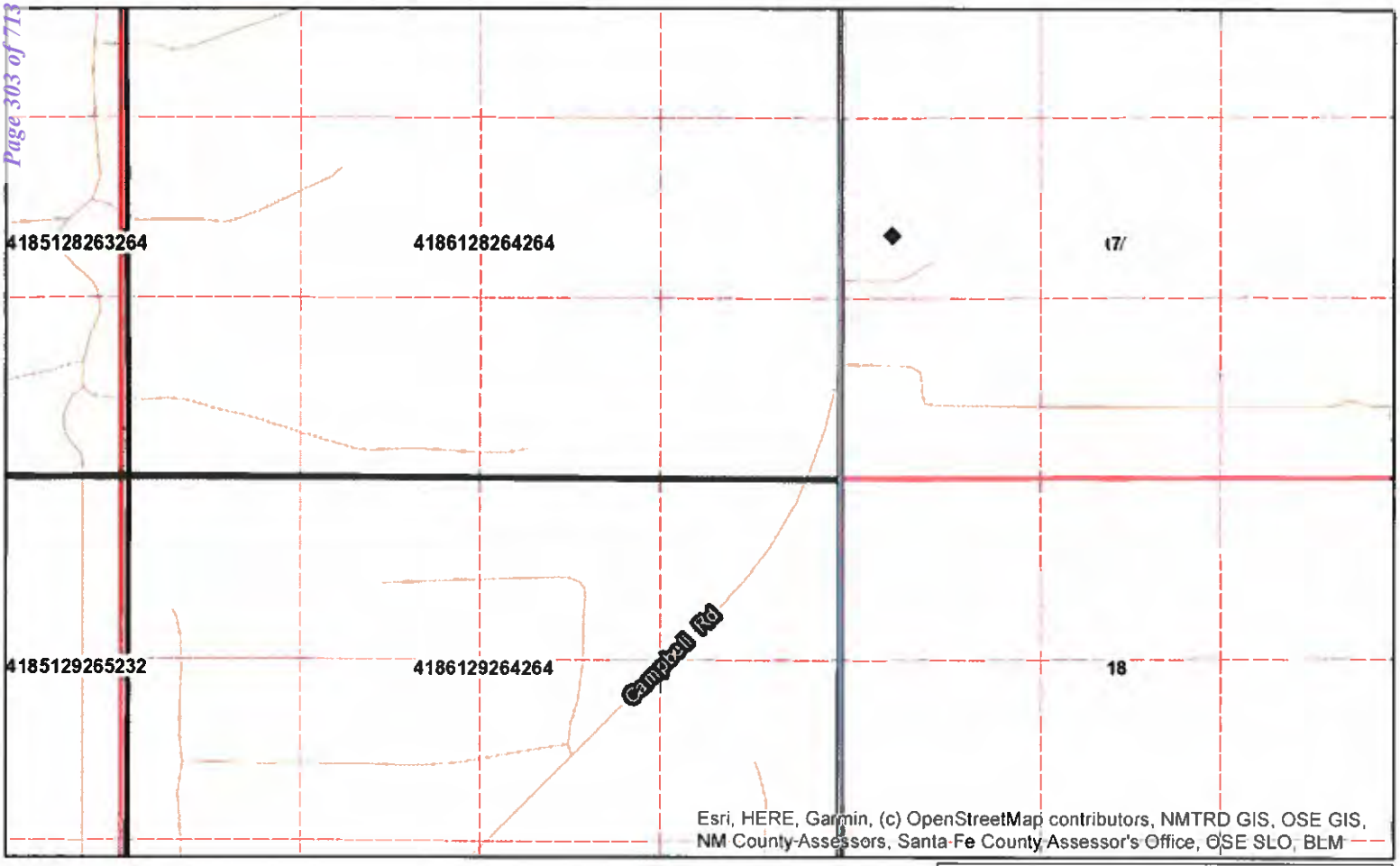
Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 303 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620215.683

Northing 3585899.264

State Plane - NAD 83 (f) - Zone E

Easting 730106.393

Northing 511125.285

Degrees Minutes Seconds

Latitude 32 : 24 : 13.220000

Longitude -103 : 43 : 18.110000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:18,056

mi

0 0.05 0.1 0.2

N

GUILLEN 3/24/2021

Office of the State Engineer
Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately interpret the source data used in their preparation, however a degree of error is inherent in all maps and these maps may contain omissions and inaccuracies. Spatial resolution, projection, positional accuracy, development methodology, and precision of source data, and other considerations, limit the appropriate uses of these maps. These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area: C
CUB

Land Grant:
Not in Land Grant

Restrictions:
NA

PLSS Description
NE SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address: null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD30

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

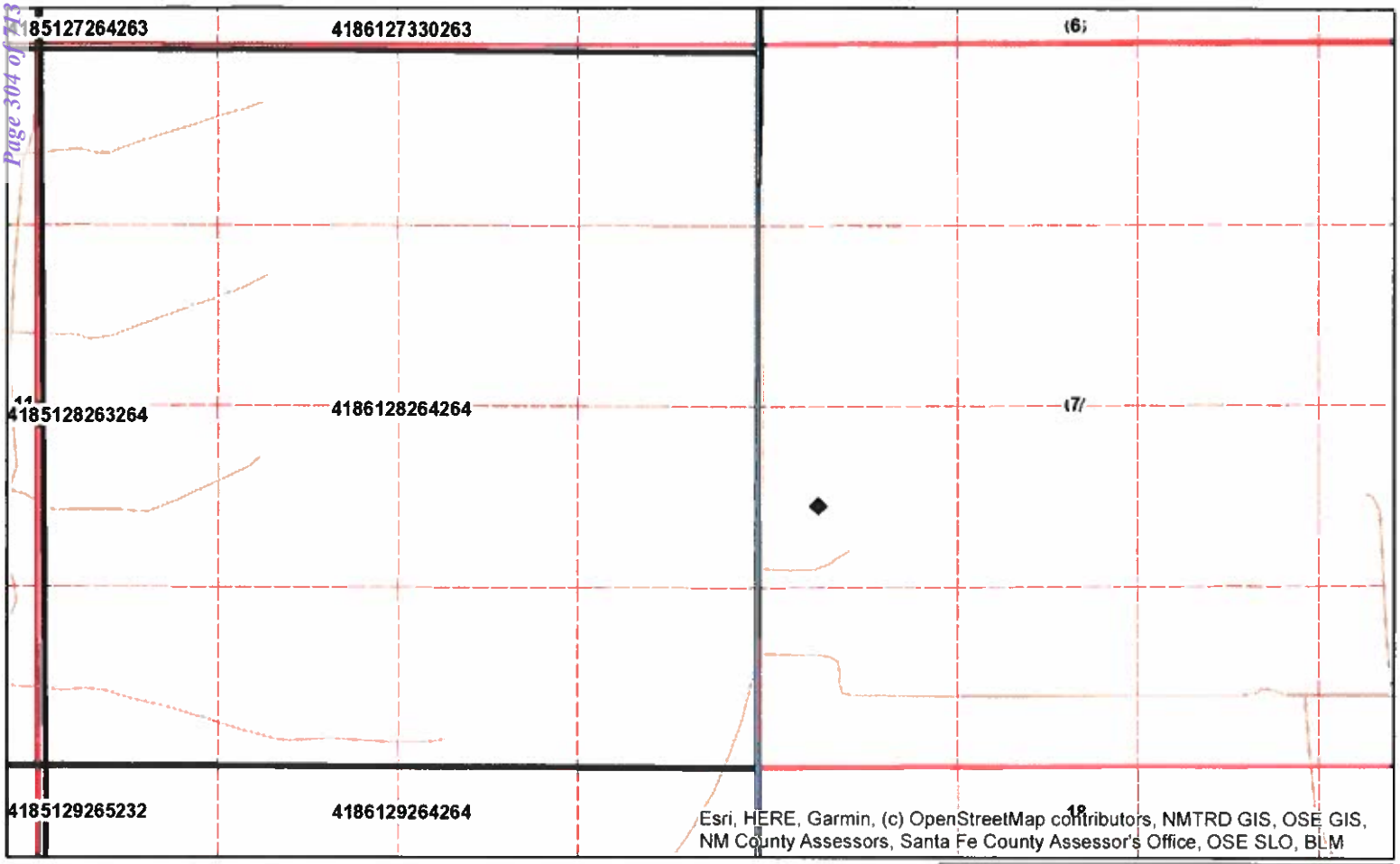
Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 304 of 313



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620233.219

Northing 3585940.436

State Plane - NAD 83 (f) - Zone E

Easting 730164.778

Northing 511260.028

Degrees Minutes Seconds

Latitude 32 : 24 : 14.550000

Longitude -103 : 43 : 17.420000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:18,056

mi

0 0.05 0.1 0.2

N

GUILLEN 3/24/2021

Office of the State Engineer nm Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately interpret the source data used in their preparation. However, a degree of error is inherent in all maps, and these maps are compilations and interpretations of various records which possess inherent accuracy and dependent methodology. Interpretation of source data and other circumstances.
These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area: C
CUB

Land Grant:
Not in Land Grant

Restrictions:
NA

PLSS Description
NE SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address: null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD31

POD Status: NoData

Permit Status: NoData

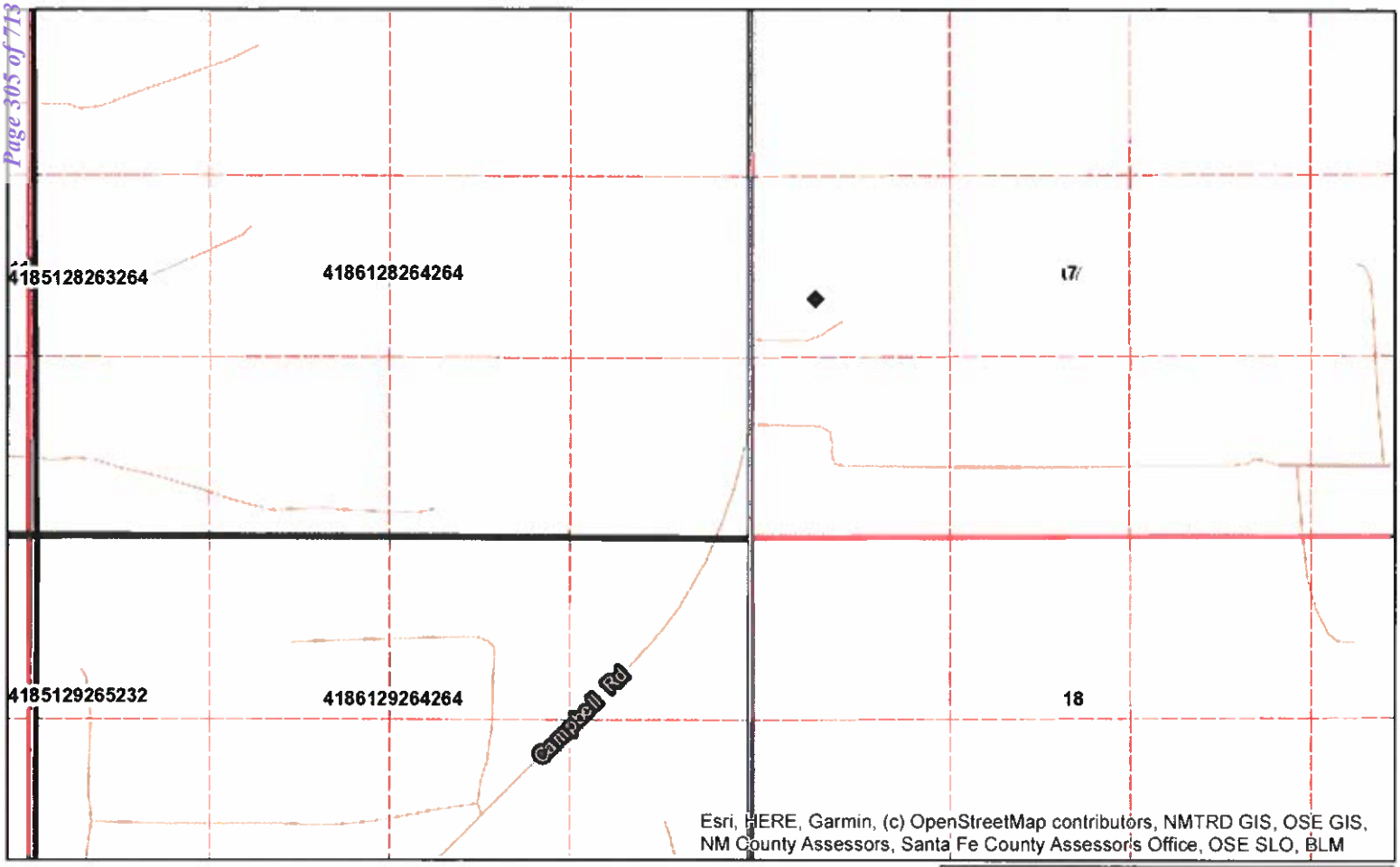
Permit Use: NoData

Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620245.602

Northing 3585888.226

State Plane - NAD 83 (f) - Zone E

Easting 730204.340

Northing 511088.454

Degrees Minutes Seconds

Latitude 32 : 24 : 12.850000

Longitude -103 : 43 : 16.970000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:18,056

mi

0 0.05 0.1 0.2

N

GUILLEN 3/24/2021

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately interpret the source data used in their preparation, however, a degree of error is inherent in all maps, and these maps may contain omissions and errors due to location, rectification, positional accuracy, data entry methodology, interpretation of source data, and other circumstances.
These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area: C
CUB

Land Grant:
Not in Land Grant

Restrictions:

NA

PLSS Description

NE SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address:null null null null null

Legal:

POD Information

Owner: EOG/GIS

File Number: C-4144 POD32

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

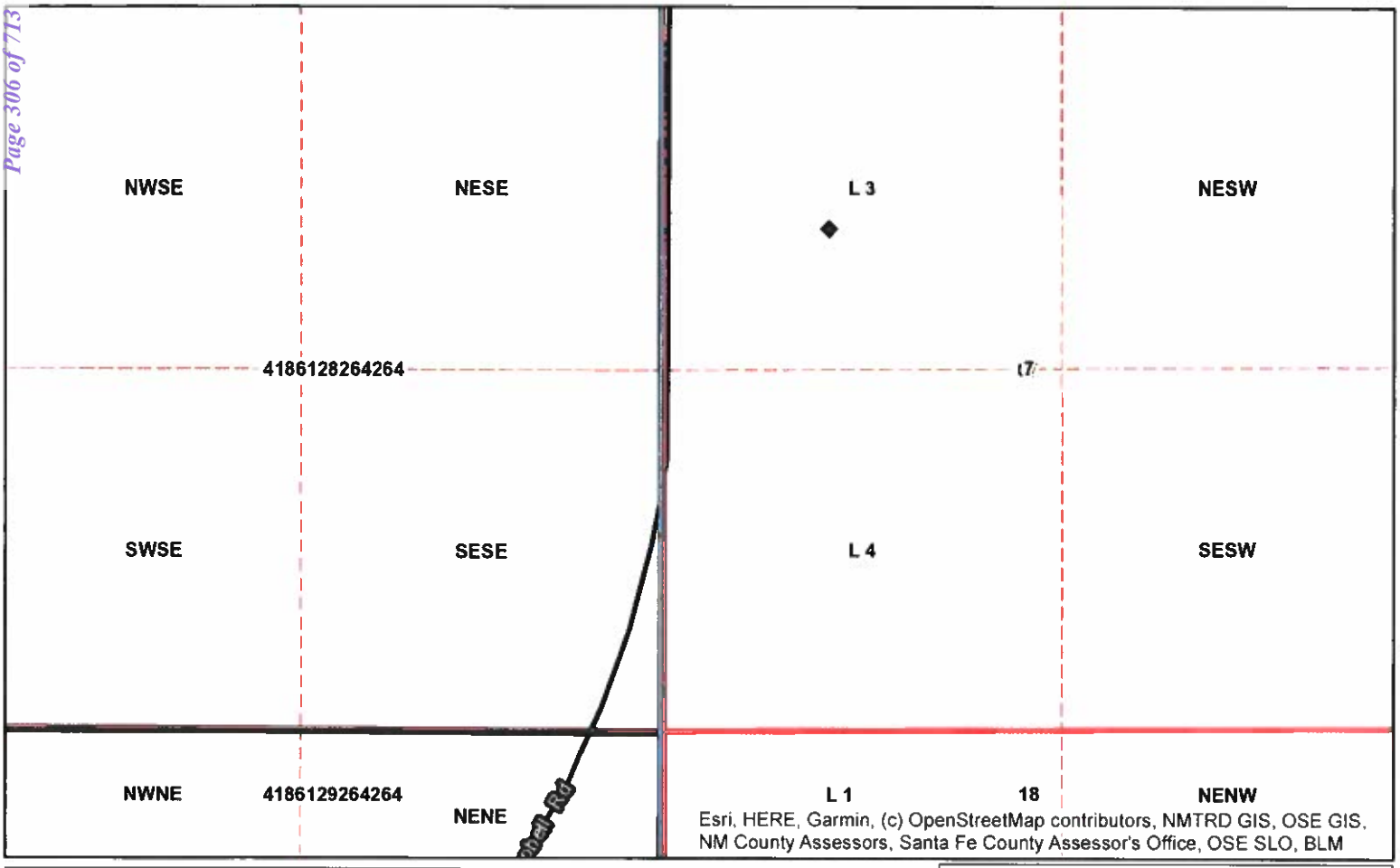
Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 306 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620285.252

Northing 3585915.496

State Plane - NAD 83 (f) - Zone E

Easting 730335.004

Northing 511177.124

Degrees Minutes Seconds

Latitude 32 : 24 : 13.720000

Longitude -103 : 43 : 15.440000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028

ft

0 185 370 740

N

GUILLEN 3/24/2021

Office of the State Engineer

Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately represent the source data used in their preparation, however, a degree of error is inherent in all maps, and these maps may contain some errors and should not be used for navigation, boundary or accuracy determination, or any other purpose requiring exact data. The OSE makes no warranties, expressed or implied, concerning the accuracy of these maps and the data from which they were produced, nor does it make any warranties of merchantability or fitness for any particular purpose. By using these maps, the user agrees to hold the OSE harmless from any damages, losses or liabilities arising out of the user's use of these maps. These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area: C
CUB

Land Grant:
Not in Land Grant

Restrictions:
NA

PLSS Description
NE SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address: null null null null null null

Legal:

POD Information

Owner: EOG/GIS

File Number: C-4144 POD33

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

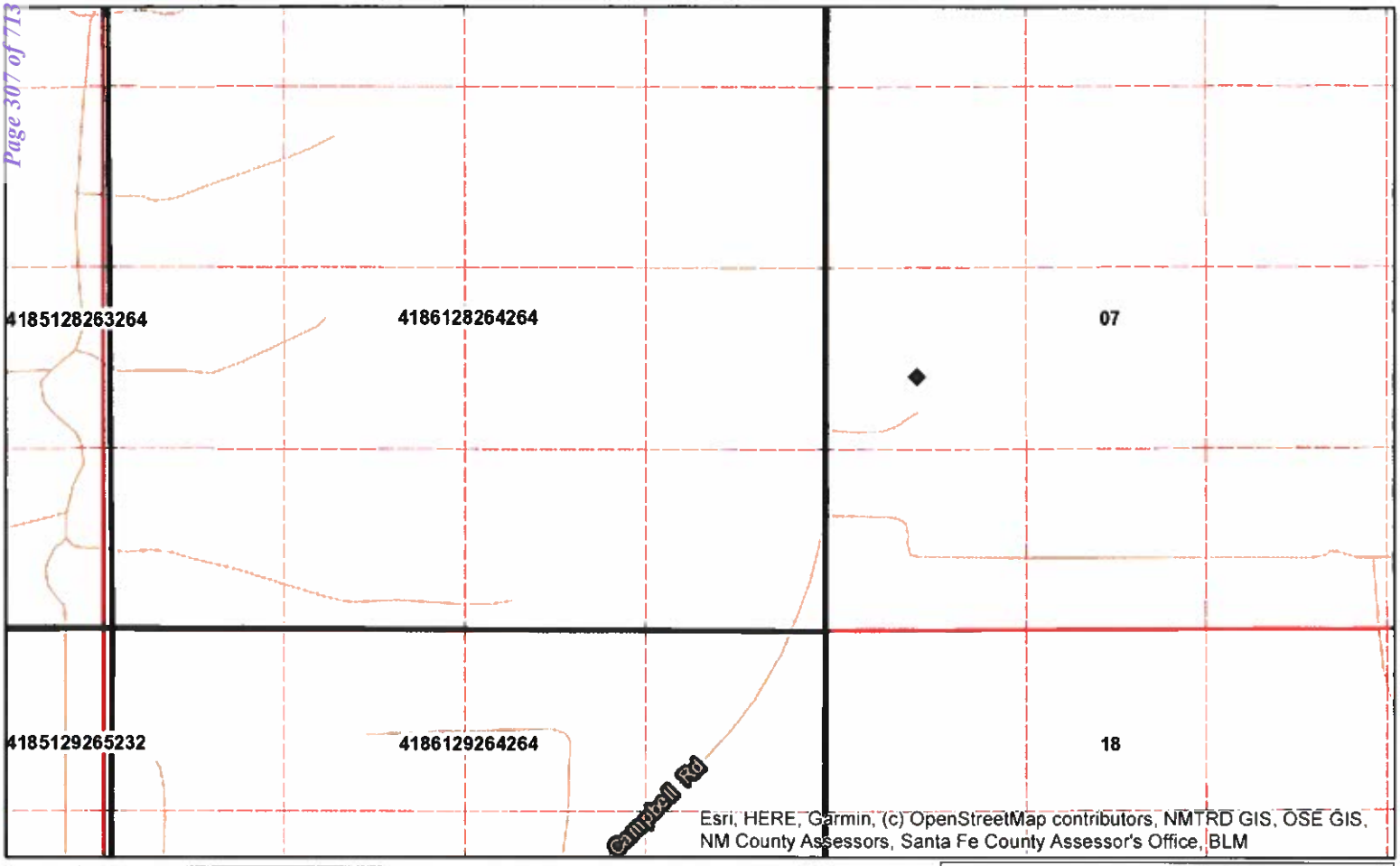
Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- Sections
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 307 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620303.226

Northing 3585920.023

State Plane - NAD 83 (f) - Zone E

Easting 730394.077

Northing 511191.610

Degrees Minutes Seconds

Latitude 32 : 24 : 13.860000

Longitude -103 : 43 : 14.750000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:18,056

mi

0 0.05 0.1 0.2

N

GUILLEN 3/25/2021

Office of the State Engineer

Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately interpret the source data used in their preparation, however a degree of error is inherent in all maps, and these maps may contain omissions and errors. Interpretation, modification, positional accuracy, development methodology, interpretation of source data, and other considerations limit these maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area: C
CUB

Land Grant:
Not in Land Grant

Restrictions:
NA

PLSS Description
NE SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address: null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD34

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

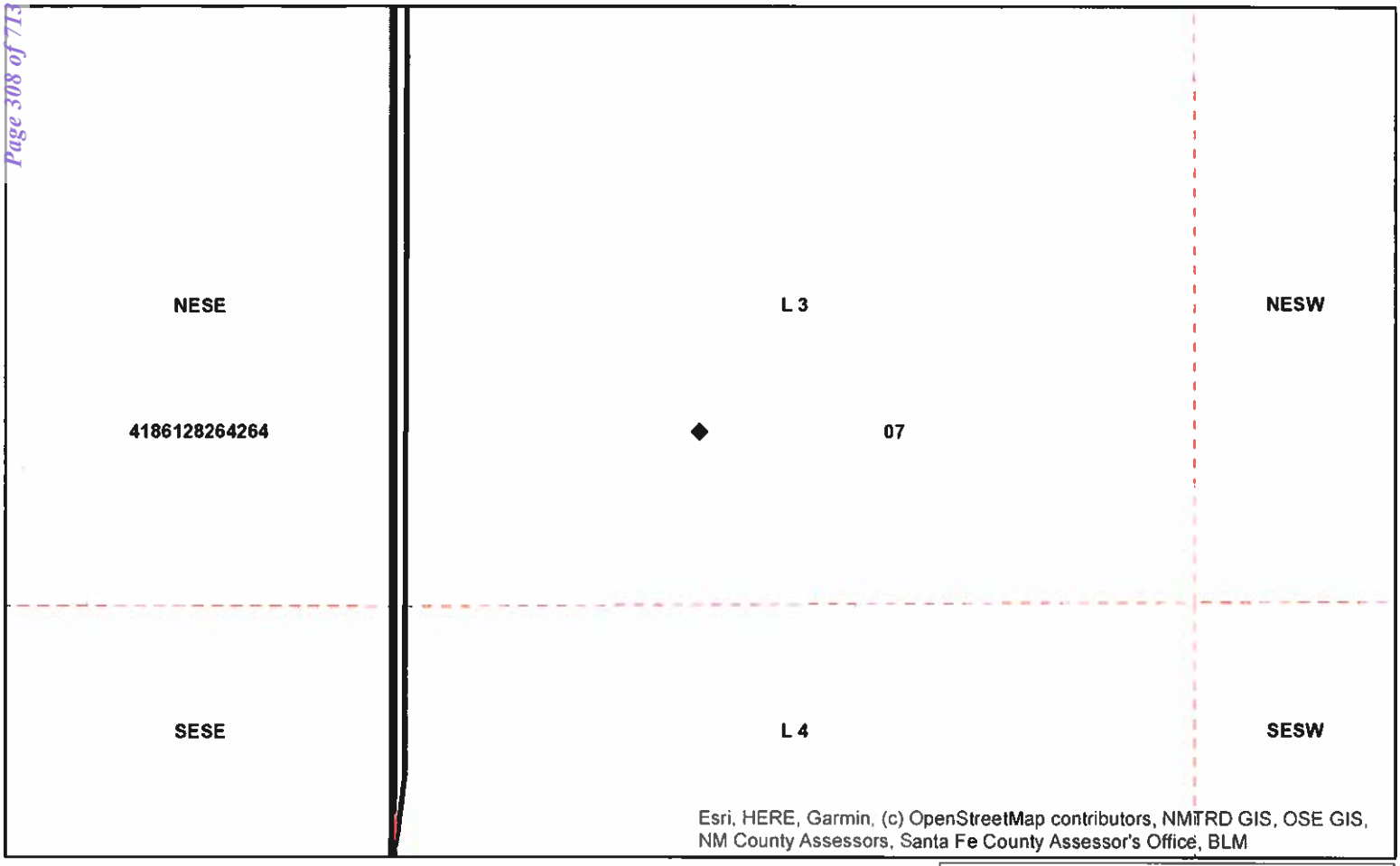
Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 308 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620270.034

Northing 3585855.255

State Plane - NAD 83 (f) - Zone E

Easting 730283.837

Northing 510979.766

Degrees Minutes Seconds

Latitude 32 : 24 : 11.770000

Longitude -103 : 43 : 16.050000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:4,514

ft

0 90 180 360

N

GUILLEN 3/25/2021

Office of the State Engineer

Interstate Stream Commission

Responsible efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately interpret the source data used in their preparation, however a degree of error is inherent in all maps, and these maps may contain omissions and errors or lack information necessary for precision, professional accuracy, design and engineering. Interpretation of these data and other circumstances.

These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area: C
CUB

Land Grant:
Not in Land Grant

Restrictions:

NA

PLSS Description

SE SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address: null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD35

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

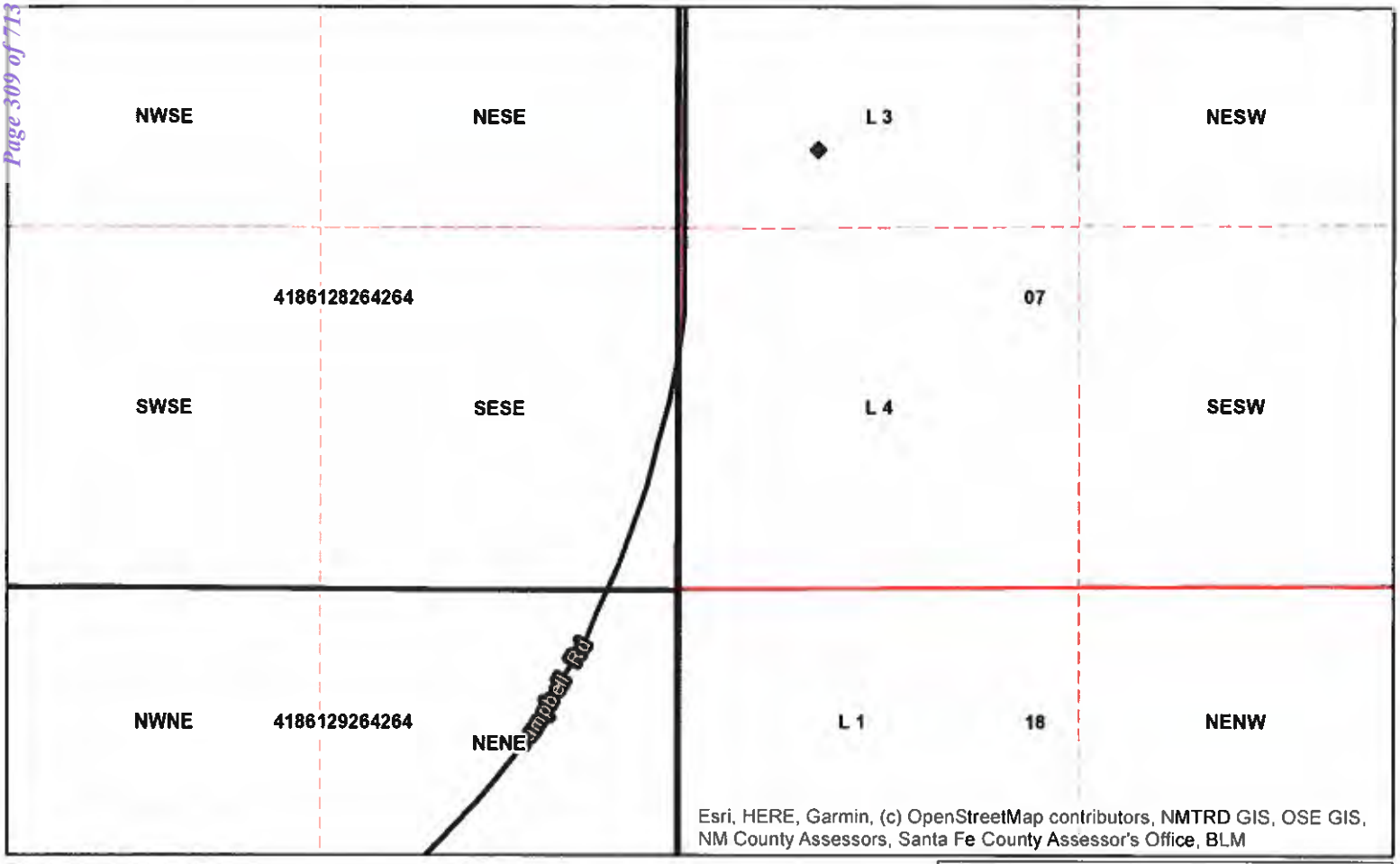
Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 309 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620255.261

Northing 3585845.223

State Plane - NAD 83 (f) - Zone E

Easting 730235.156

Northing 510947.148

Degrees Minutes Seconds

Latitude 32 : 24 : 11.450000

Longitude -103 : 43 : 16.620000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028

ft

0 185 370 740

N

GUILLEN 3/25/2021

Office of the State Engineer
Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately interpret the source data used in their preparation, however a degree of error is inherent in all maps and these maps may contain omissions and errors in scale. Resolution, inherent data, positional accuracy, development methodology, interpretation of source data, and other circumstances.

These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area: C
CUB

Land Grant:
Not in Land Grant

Restrictions:
NA

PLSS Description
SE SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address: null null null null null null

Legal:

POD Information

Owner: OSE/GHD

File Number: C-4144 POD36

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

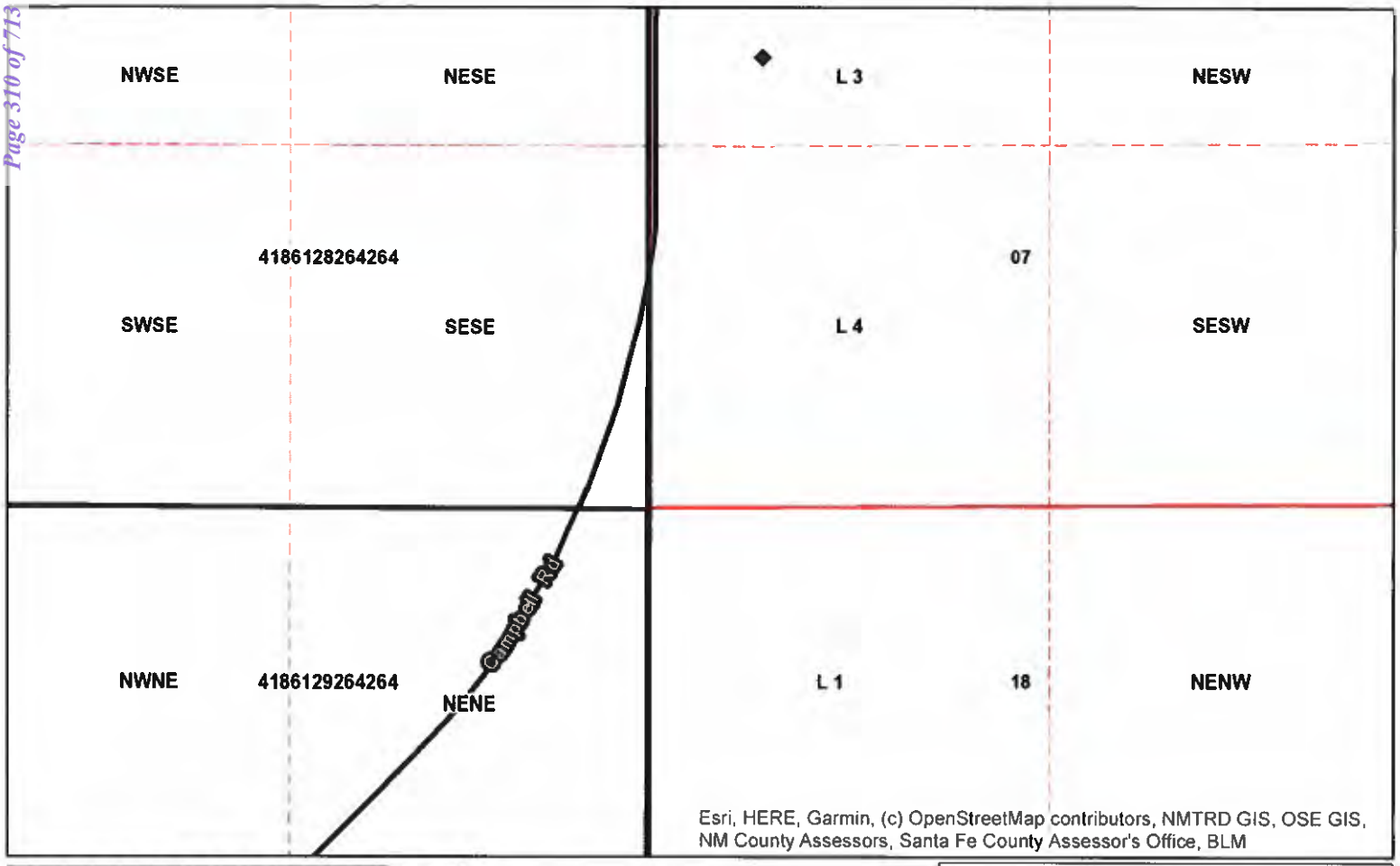
Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 310 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620226.122

Northing 3585856.578

State Plane - NAD 83 (f) - Zone E

Easting 730139.774

Northing 510985.005

Degrees Minutes Seconds

Latitude 32 : 24 : 11.830000

Longitude -103 : 43 : 17.730000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028

ft

0 185 370 740

N

GUILLEN 3/25/2021

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area:C

CUB

Land Grant:

Not in Land Grant

Restrictions:

NA

PLSS Description

SE SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address:null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD37

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

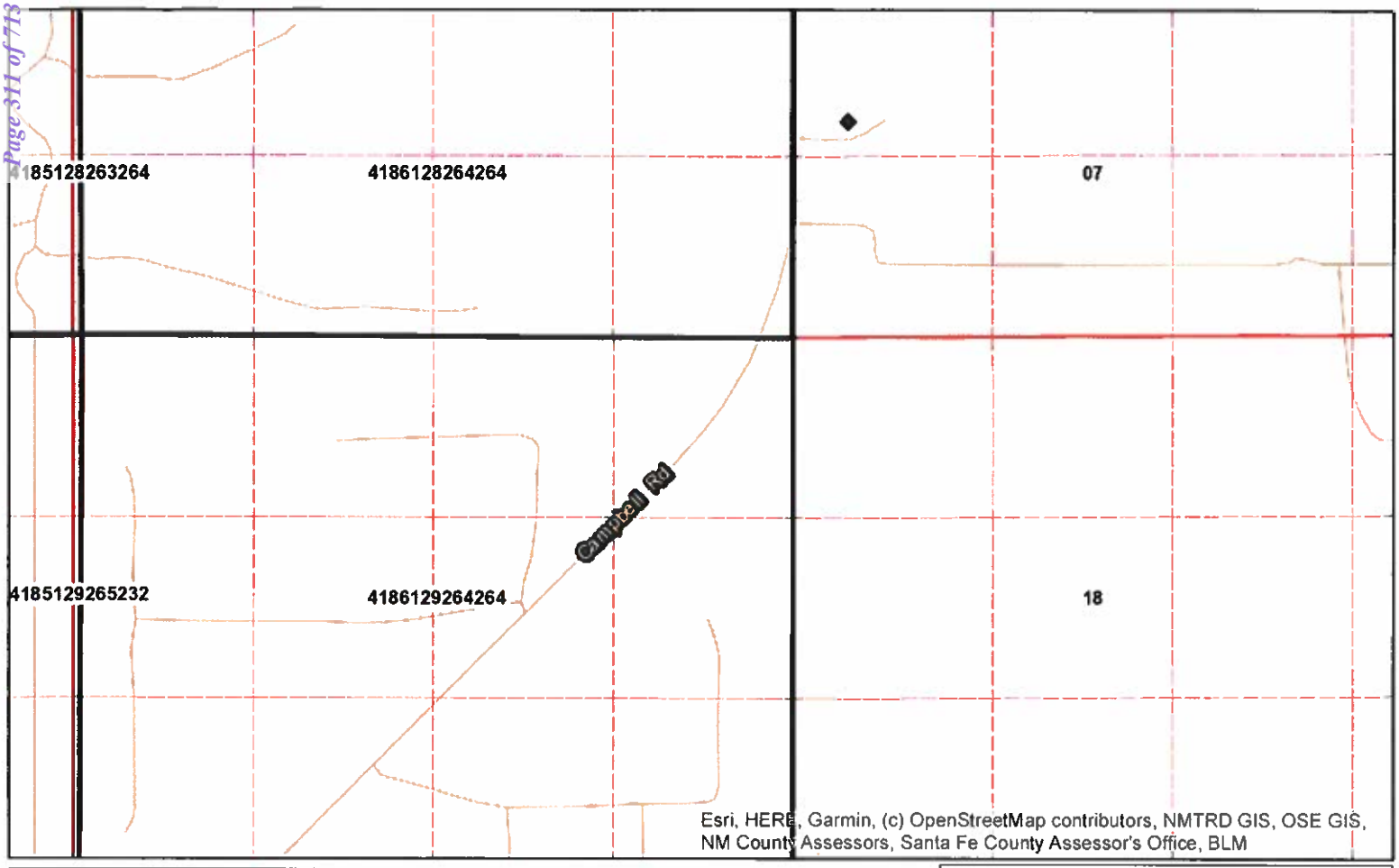
Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 311 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620224.010

Northing 3585836.533

State Plane - NAD 83 (f) - Zone E

Easting 730132.435

Northing 510919.274

Degrees Minutes Seconds

Latitude 32 : 24 : 11.180000

Longitude -103 : 43 : 17.820000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:18,056

mi

0 0.05 0.1 0.2

N

GUILLEN 3/25/2021

Office of the State Engineer

Interstate Stream Commission

Resources of this Area were made by the New Mexico Office of the State Engineer (OSE) to verify that they may be accurately interpreted the source data used in their production, however a degree of error is inherent in all maps, and these maps are not to be used or considered as surveys. Verification, positional accuracy and appropriate methodology for creation of source data is the responsibility of the user. These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area: C

CUB

Land Grant:

Not in Land Grant

Restrictions:

NA

PLSS Description

SE SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address: null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD38

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

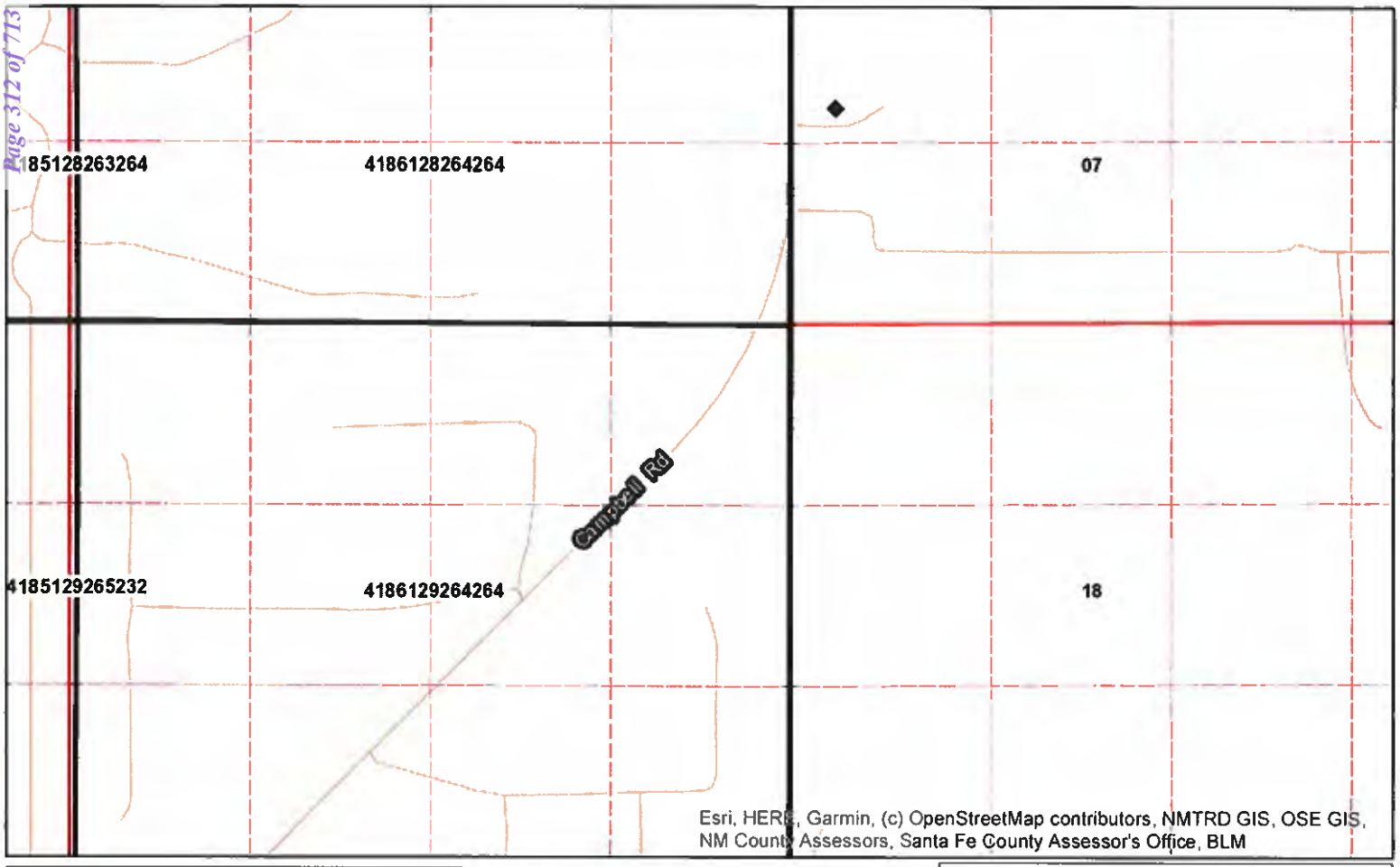
Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 312 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620200.240

Northing 3585835.941

State Plane - NAD 83 (f) - Zone E

Easting 730054.425

Northing 510917.817

Degrees Minutes Seconds

Latitude 32 : 24 : 11.170000

Longitude -103 : 43 : 18.730000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:18,056

mi

0 0.05 0.1 0.2

N

GUILLEN 3/25/2021

Office of the State Engineer

Interstate Stream Commission

Reasonable efforts have been made to ensure that the New Mexico Office of the State Engineer (OSE) has verified that these maps accurately interpret the source data used in their preparation. However, a degree of error is inherent in all maps, and because maps are limited in their ability to display and represent reality, positional accuracy, data attribute methodology, interpretation of source data, and other considerations vary.

These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area:C

CUB

Land Grant:

Not in Land Grant

Restrictions:

NA

PLSS Description

SW SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address:null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD39

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

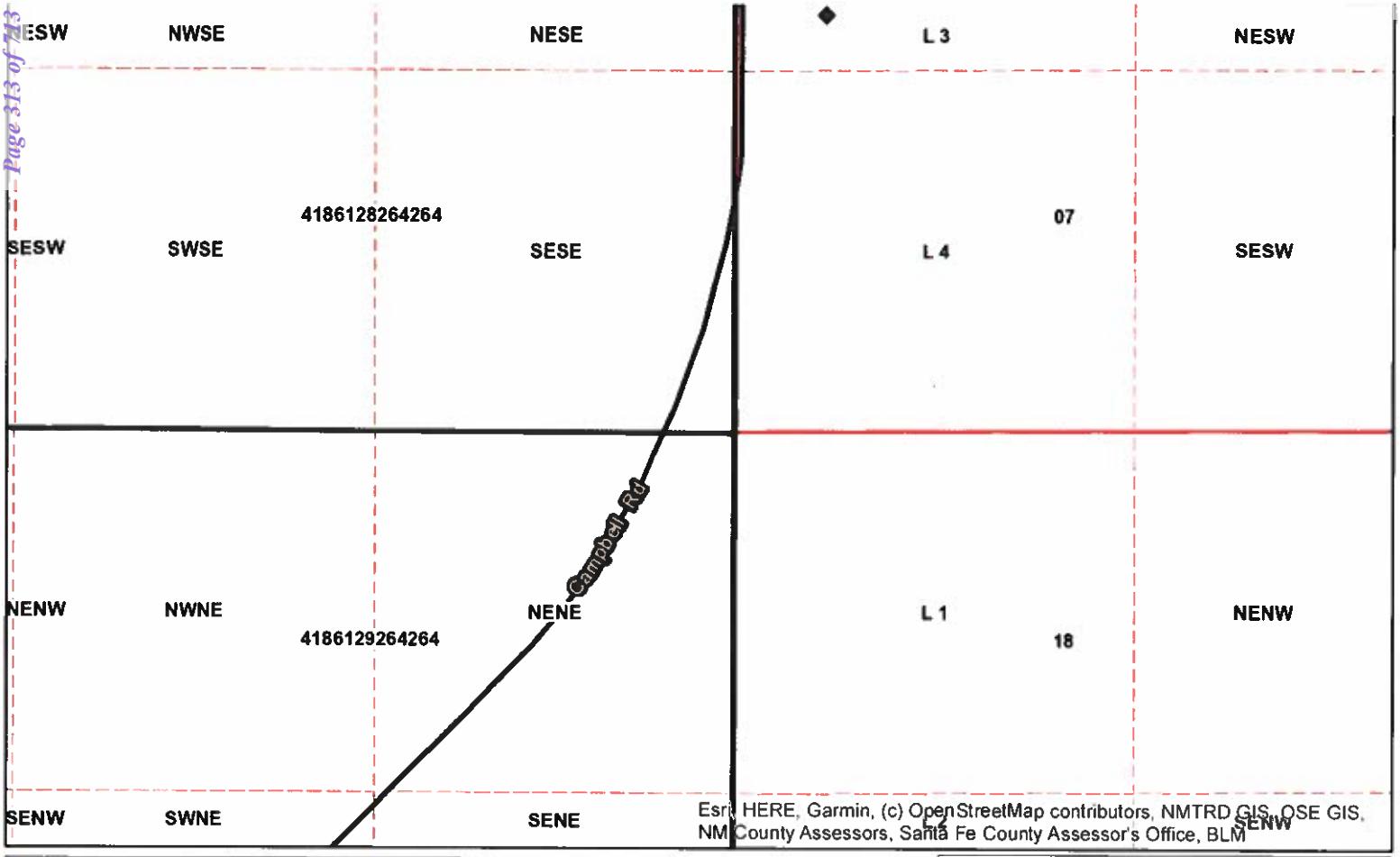
Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 313 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620200.947

Northing 3585820.550

State Plane - NAD 83 (f) - Zone E

Easting 730056.429

Northing 510867.299

Degrees Minutes Seconds

Latitude 32 : 24 : 10.670000

Longitude -103 : 43 : 18.710000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028

ft

0 185 370 740

N

GUILLEN 3/25/2021

Office of the State Engineer

Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately interpret the source data used in their preparation. However, a degree of error is inherent in all maps, and the OSE makes no warranty or guarantee as to the accuracy, reliability, or timeliness of any information provided on these maps. These maps are distributed "AS IS" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area: C
CUB

Land Grant:
Not in Land Grant

Restrictions:
NA

PLSS Description
SW SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address: null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD40

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

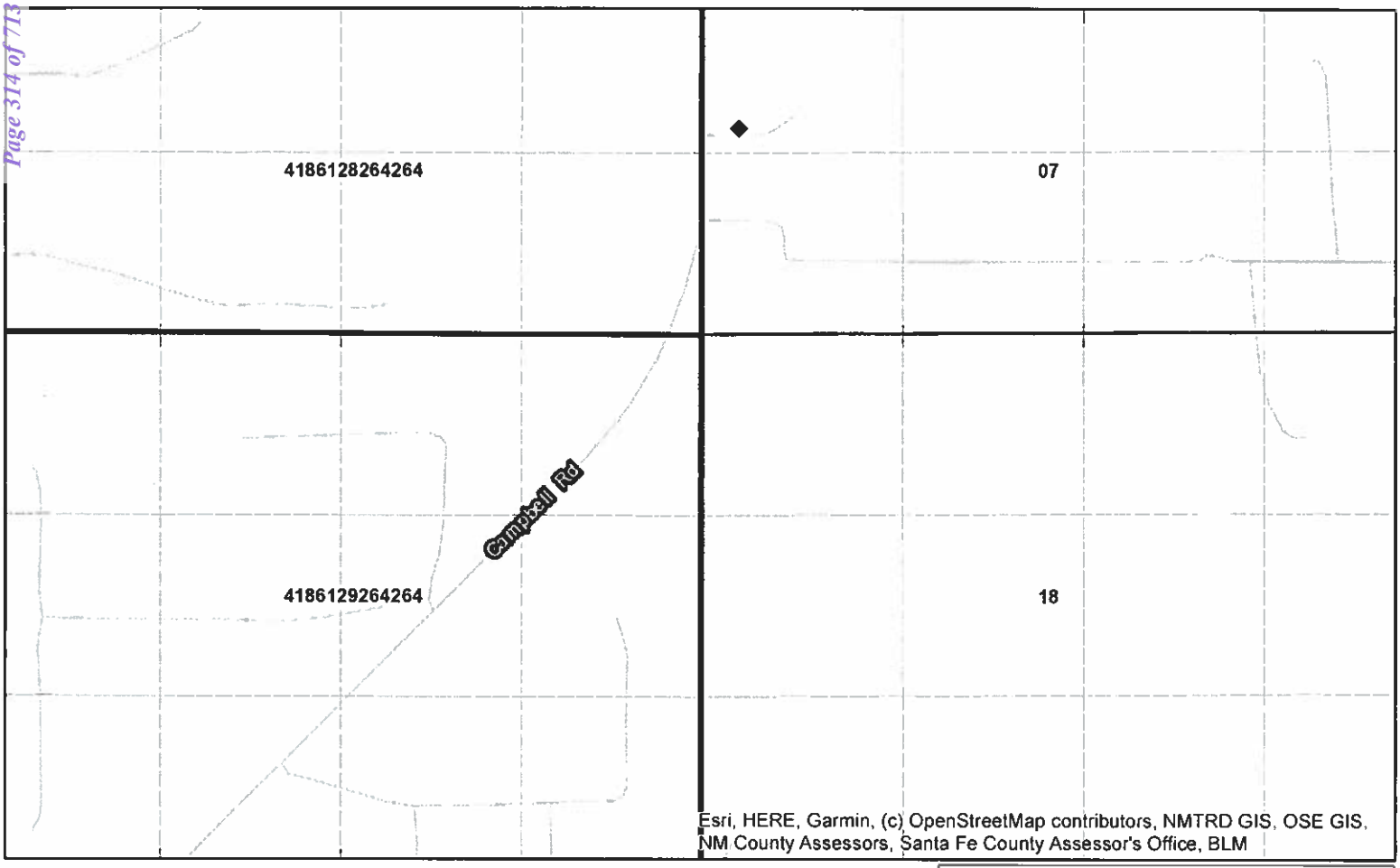
Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 314 of 711



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620181.453

Northing 3585812.001

State Plane - NAD 83 (f) - Zone E

Easting 729992.286

Northing 510839.647

Degrees Minutes Seconds

Latitude 32 : 24 : 10.400000

Longitude -103 : 43 : 19.460000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:18,056

mi

0 0.05 0.1 0.2

N

GUILLEN 3/25/2021

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area: C
CUB

Land Grant:
Not in Land Grant

Restrictions:
NA

PLSS Description
SW SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address: null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD41

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

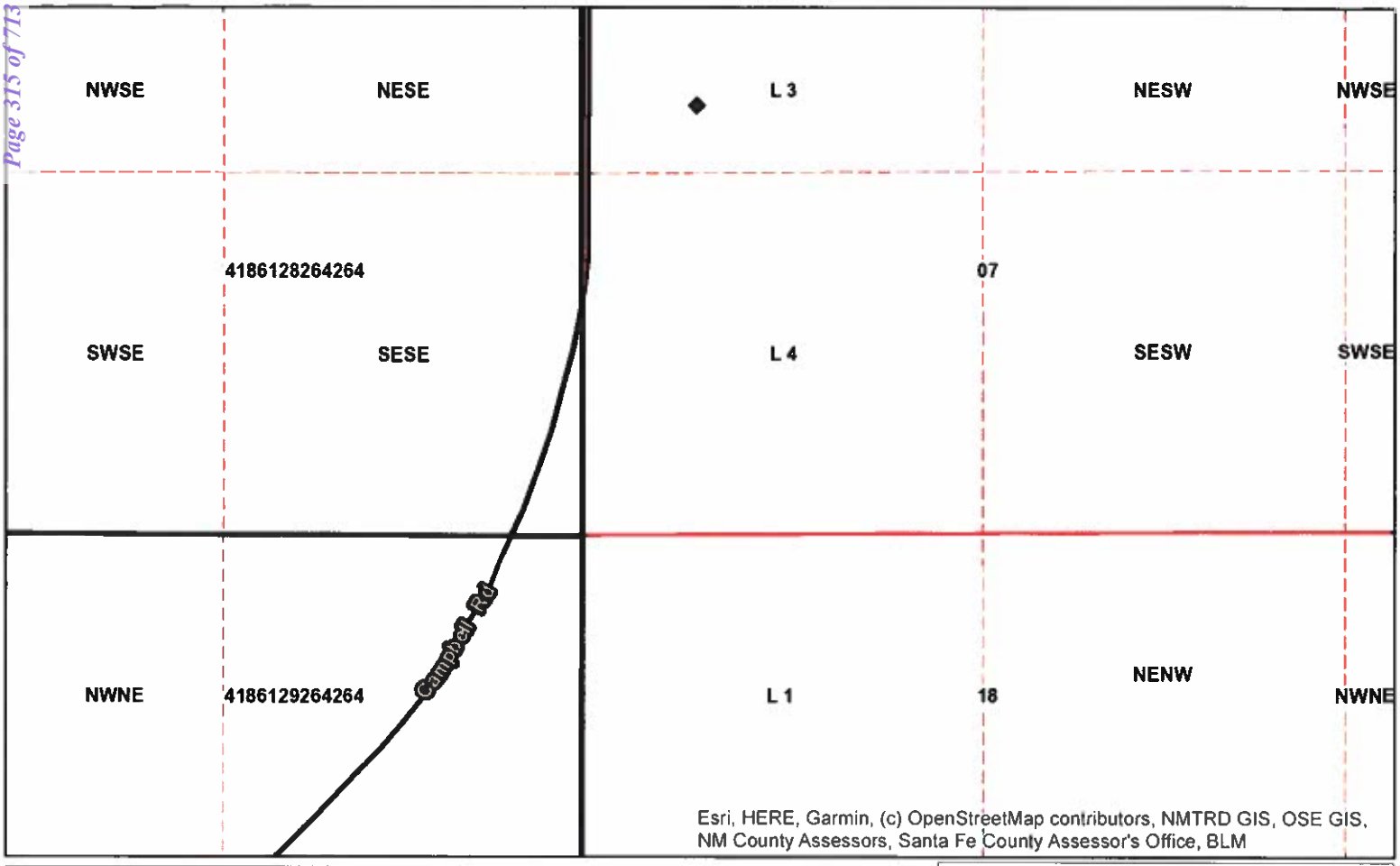
Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 315 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620227.440

Northing 3585833.802

State Plane - NAD 83 (f) - Zone E

Easting 730143.632

Northing 510910.243

Degrees Minutes Seconds

Latitude 32 : 24 : 11.090000

Longitude -103 : 43 : 17.690000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:9,028

ft

0 185 370 740

N

GUILLEN 3/25/2021

Office of the State Engineer
Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately represent the source data used in their production, however a degree of error is inherent in all maps and these maps may contain minor spatial and attribute inaccuracies, modification, personal opinions on alignment methodology, interpretation of source data, and other considerations.
These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area:C
CUB

Land Grant:
Not in Land Grant

Restrictions:
NA

PLSS Description
SE SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address:null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD42

POD Status: NoData

Permit Status: NoData

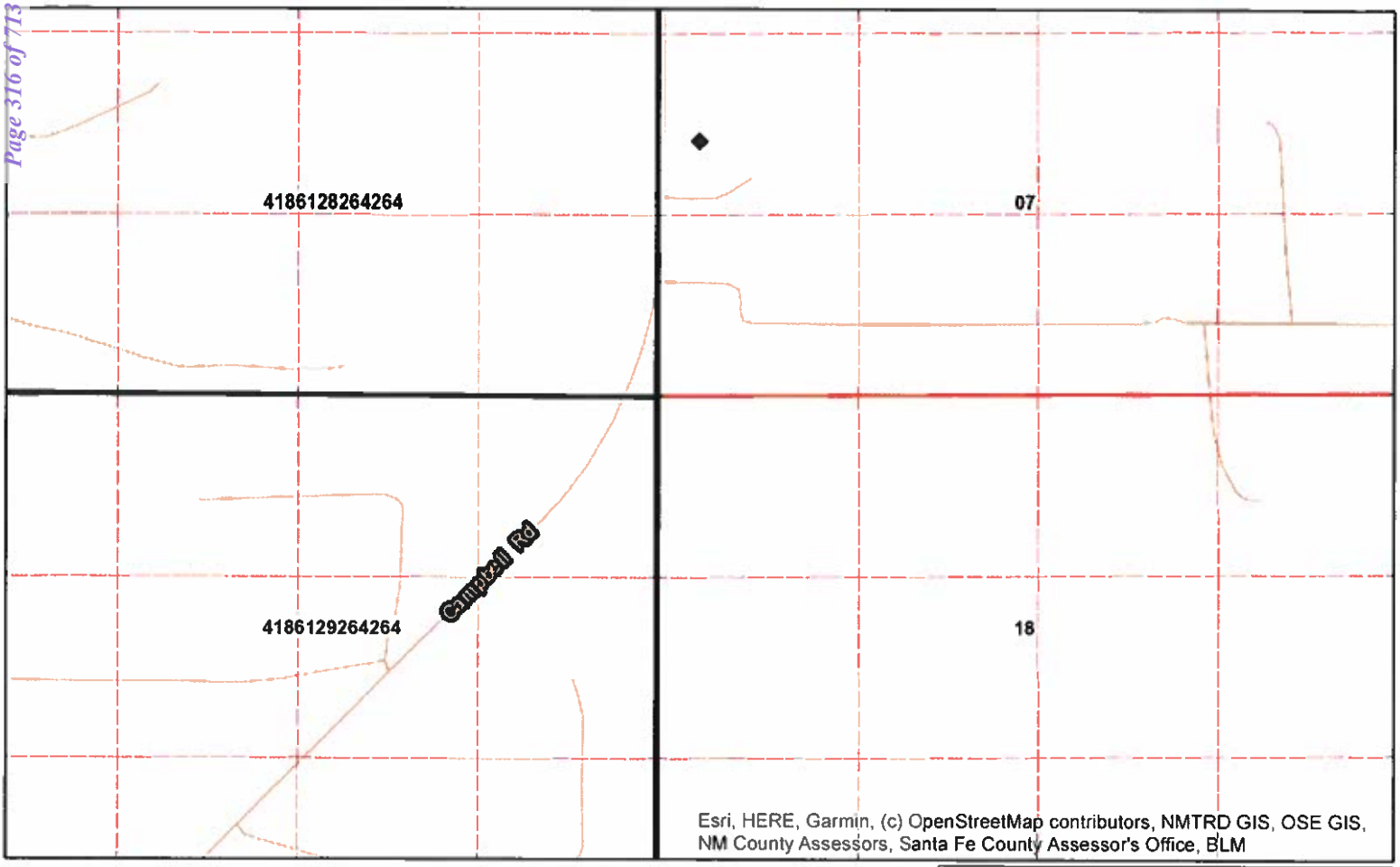
Permit Use: NoData

Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620190.323

Northing 3585922.368

State Plane - NAD 83 (f) - Zone E

Easting 730023.653

Northing 511201.617

Degrees Minutes Seconds

Latitude 32 : 24 : 13.980000

Longitude -103 : 43 : 19.070000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:18,056

mi

0 0.05 0.1 0.2

N

GUILLEN 3/25/2021

Office of the State Engineer

Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately represent the source data used in their preparation, however, a degree of error is inherent in all maps, and these maps may contain inaccuracies due to any of a number of reasons, including source data, scale, interpretation of source data, and other circumstances.
These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area:C

CUB

Land Grant:

Not in Land Grant

Restrictions:

NA

PLSS Description

NW SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address:null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD43

POD Status: NoData

Permit Status: NoData

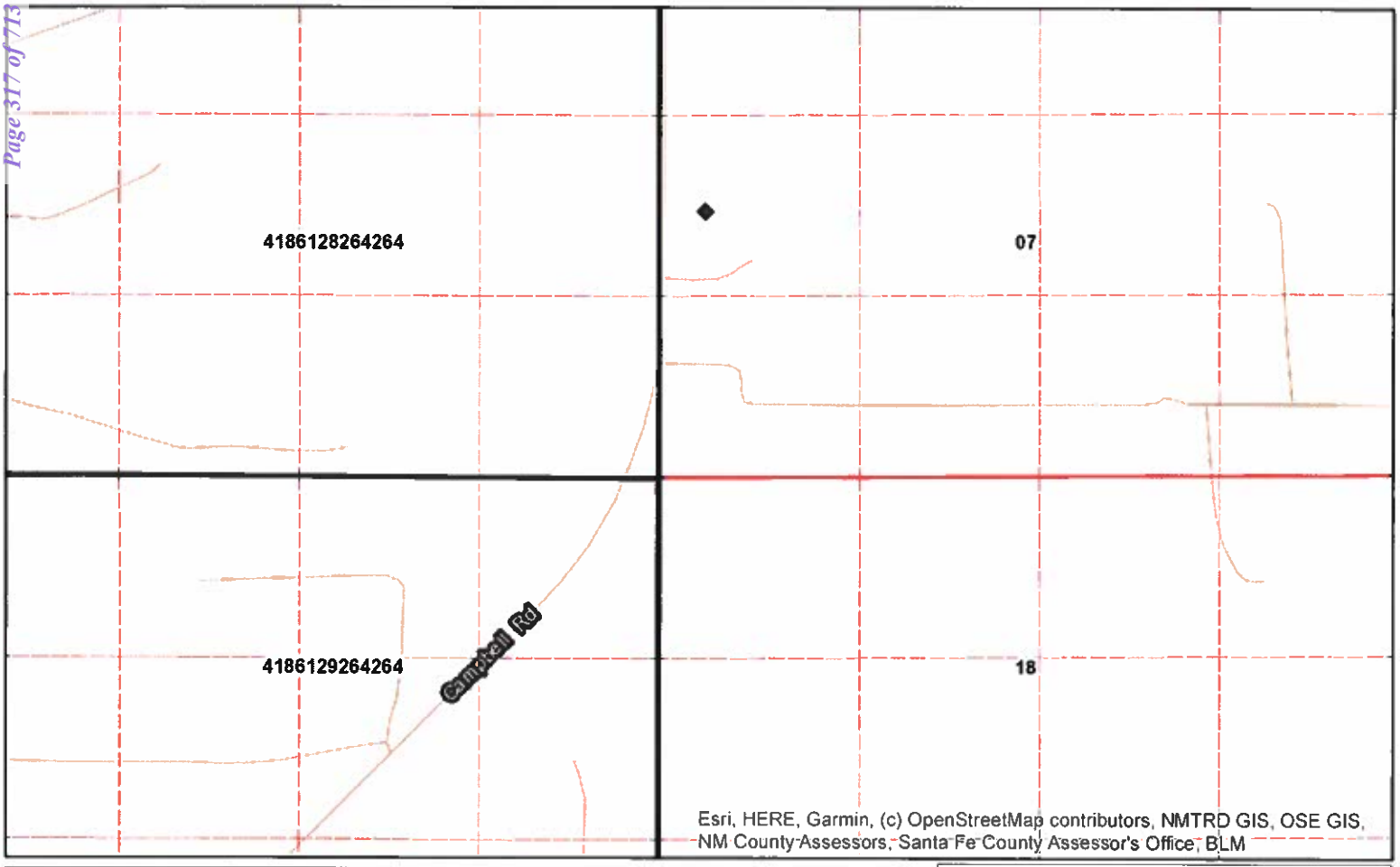
Permit Use: NoData

Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620201.259

Northing 3585947.446

State Plane - NAD 83 (f) - Zone E

Easting 730060.049

Northing 511283.683

Degrees Minutes Seconds

Latitude 32 : 24 : 14.790000

Longitude -103 : 43 : 18.640000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:18,056

mi

0 0.05 0.1 0.2

N

GUILLEN 3/25/2021

Office of the State Engineer
Interstate Stream Commission

Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately represent the source data used in their preparation, however a degree of error is inherent in all maps, and these maps may contain some errors and/or omissions. Resolution, registration, positional and other data alignment methodology, interpretation of source data, and other circumstances.
These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area: C
CUB

Land Grant:
Not in Land Grant

Restrictions:
NA

PLSS Description
NW SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address: null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD44

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

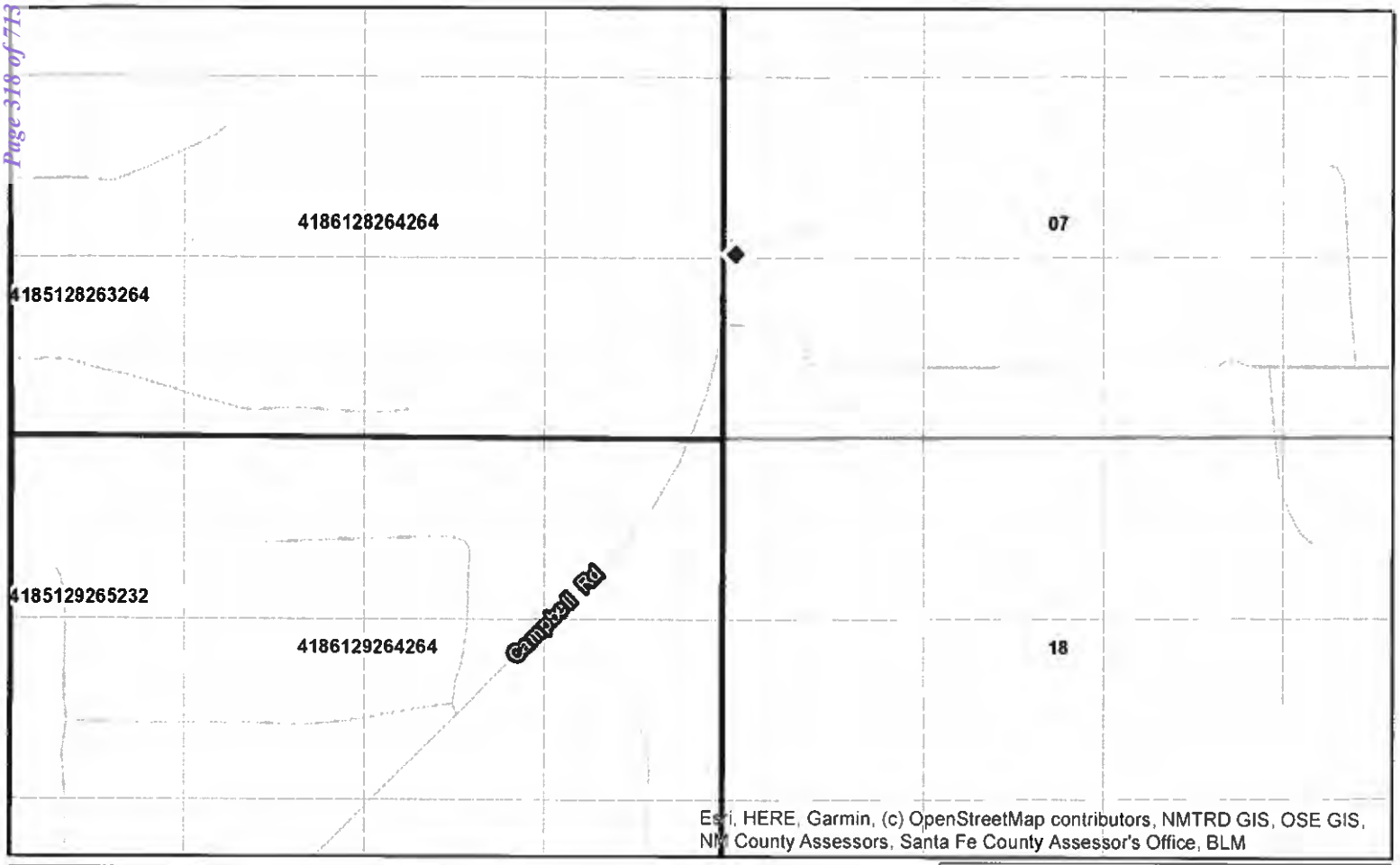
Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 318 of 773



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620128.710
Northing 3585765.172

State Plane - NAD 83 (f) - Zone E

Easting 729818.260
Northing 510687.064

Degrees Minutes Seconds

Latitude 32 : 24 : 8.900000
Longitude -103 : 43 : 21.500000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:18,056

mi
0 0.05 0.1 0.2

N

GUILLEN 3/25/2021

Spatial Information

County: Lea
Groundwater Basin: Carlsbad
Abstract Area: C
CUB
Land Grant:
Not in Land Grant
Restrictions:
NA
PLSS Description
SW SW NW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS. Qtr Sec locations are calculated and are only approximations

Parcel Information

UPC/DocNum:
Parcel Owner:
Address: null null null null null null
Legal:

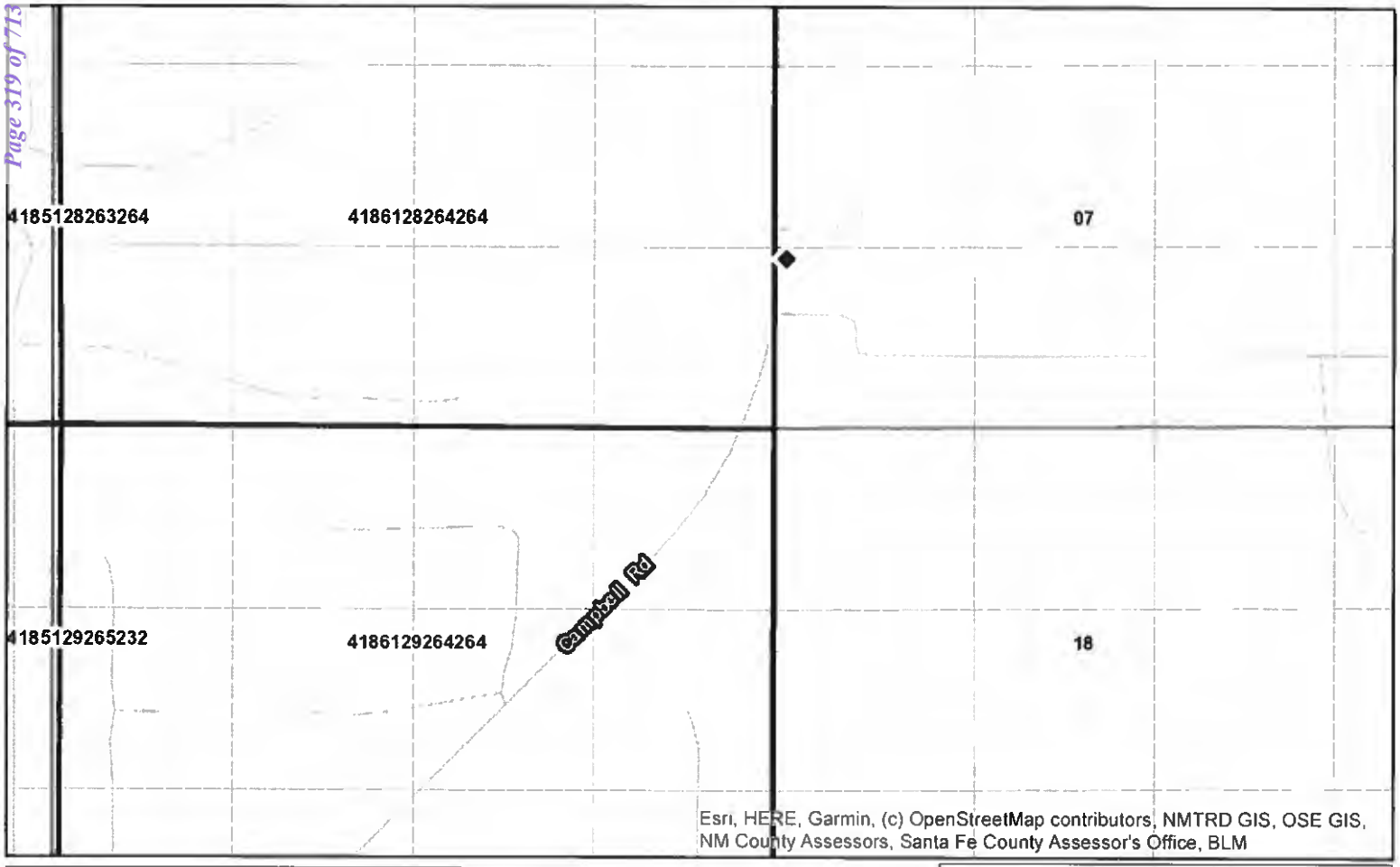
POD Information

Owner: EOG/GHD
File Number: C-4144 POD45
POD Status: NoData
Permit Status: NoData
Permit Use: NoData
Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM
Released to Imaging: 5/2/2022 3:32:26 PM

Page 319 of 713



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 620128.334

Northing 3585730.980

State Plane - NAD 83 (f) - Zone E

Easting 729816.329

Northing 510574.878

Degrees Minutes Seconds

Latitude 32 : 24 : 7.790000

Longitude -103 : 43 : 21.530000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:18,056

mi

0 0.05 0.1 0.2

N

GUILLEN 3/25/2021

Spatial Information

County: Lea

Groundwater Basin: Carlsbad

Abstract Area: C

CUB

Land Grant:

Not in Land Grant

Restrictions:

NA

PLSS Description

NW NW SW SW Qtr of Sec 7 of 22S 32E

Derived from Projected PLSS- Qtr Sec locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address: null null null null null null

Legal:

POD Information

Owner: EOG/GHD

File Number: C-4144 POD46

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose: MON

- Coord Search Location
- Eddy County Parcels 2020
- Lea County Parcels 2020
- BLM Land Grant
- PLSSTownship
- PLSSFirstDiv...
- PLSSSecond...

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 320 of 713

John R. D Antonio, Jr., P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 690620
File Nbr: C 04144

Mar. 25, 2021

ALAN BRANDON
GHD SERVICES INC.
6121 INDIAN SCHOOL RD NE
ALBUQUERQUE, NM 87110

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

* If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.

* If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.

* The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.

* This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

Claudia Guillen
(575)622-6521

Enclosure

explore

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Appendix E
Laboratory Analytical Reports and Chain-of-Custody Documentation

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1018-1
Laboratory Sample Delivery Group: 11220747
Client Project/Site: Flamenco #1
Revision: 1

For:
GHD Services Inc.
2135 South Loop 250 West
Midland, Texas 79703

Attn: Becky Haskell

Authorized for release by:
8/25/2021 4:33:56 PM

Debbie Simmons, Project Manager
(281)240-4200
debbie.simmons@eurofinset.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: GHD Services Inc.
Project/Site: Flamenco #1

Laboratory Job ID: 890-1018-1
SDG: 11220747

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 6
Surrogate Summary 36
QC Sample Results 39
QC Association Summary 51
Lab Chronicle 60
Certification Summary 71
Method Summary 72
Sample Summary 73
Chain of Custody 74
Receipt Checklists 85

Definitions/Glossary

Client: GHD Services Inc. Job ID: 890-1018-1
Project/Site: Flamenco #1 SDG: 11220747

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Job ID: 890-1018-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1018-1

Receipt
The samples were received on 7/28/2021 11:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 8.4°C

Additional requests

Per Becky Hasketll, please hold samples SB-13-6' and SB-13-15'. Also all samples should be on a three day turn and also correct dates for the following:
SB-17 - 2' 7/28 needs to be 7/26/21
SB 39 - 2' 7/28 needs to be 7/26/21
SB 27 - 2' 7/28 needs to be 7/26/21
SB 13 - 2', 4', 10', 15' needs to be 7/25/21 SB 13 - 18' needs to be 7/25/21

and Please hold the following samples:

- SB-13-6' Sample 33
- SB-13-15' Sample 28
- SB-40-20' Sample 41
- SB-21-15' Sample 45
- SB-21-20' Sample 20
- SB-32-20' Sample 51

Please Correct the sample date for SB-4' to 7/25/21 Sample 32

per Becky Haskell, Please run the following samples on 3 day TAT:

20 - SB-20-15'
46 - SB-21-20'

REVISION
per Becky Haskell there are two samples listed twice on the report, only need to report once for sample ID SB-13-4' and SB-13-10'.

Receipt Exceptions
The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: SB-41-2 (890-1018-1), SB-41-4 (890-1018-2), SB-41-10 (890-1018-3), SB-41-15 (890-1018-4), SB-42-2 (890-1018-5), SB-42-4 (890-1018-6), SB-42-10 (890-1018-7), SB-42-15 (890-1018-8), SB-23-2 (890-1018-9), SB-23-4 (890-1018-10), SB-39-10 (890-1018-11), SB-39-15 (890-1018-12), SB-27-2 (890-1018-13), SB-27-4 (890-1018-14), SB-27-10 (890-1018-15), SB-27-15 (890-1018-16), SB-20-2 (890-1018-17), SB-20-4 (890-1018-18), SB-20-10 (890-1018-19), SB-20-15 (890-1018-20), SB-17-2 (890-1018-21), SB-17-4 (890-1018-22), SB-17-10 (890-1018-23), SB-17-15 (890-1018-24), SB-13-2 (890-1018-25), SB-13-4 (890-1018-26), SB-13-10 (890-1018-27), SB-13-15 (890-1018-28), SB-39-2 (890-1018-29), SB-39-4 (890-1018-30), SB-23-10 (890-1018-31), SB-13-4 (890-1018-32), SB-13-6 (890-1018-33), SB-13-10 (890-1018-34), SB-13-18 (890-1018-35), SB-13-30 (890-1018-36), SB-40-2 (890-1018-37), SB-40-4 (890-1018-38), SB-40-10 (890-1018-39), SB-40-15 (890-1018-40), SB-40-20 (890-1018-41), SB-21-2 (890-1018-42), SB-21-4 (890-1018-43), SB-21-10 (890-1018-44), SB-21-15 (890-1018-45), SB-21-20 (890-1018-46), SB-32-2 (890-1018-47), SB-32-4 (890-1018-48), SB-32-10 (890-1018-49), SB-32-15 (890-1018-50) and SB-32-20 (890-1018-51).

Case Narrative

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Job ID: 890-1018-1 (Continued)

Laboratory: Eurofins Xenco, Carlsbad (Continued)

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): SB-41-2 (890-1018-1), SB-41-4 (890-1018-2), SB-41-10 (890-1018-3), SB-41-15 (890-1018-4), SB-42-2 (890-1018-5), SB-42-4 (890-1018-6), SB-42-10 (890-1018-7), SB-42-15 (890-1018-8), SB-23-2 (890-1018-9), SB-23-4 (890-1018-10), SB-39-10 (890-1018-11), SB-39-15 (890-1018-12), SB-27-2 (890-1018-13), SB-27-4 (890-1018-14), SB-27-10 (890-1018-15), SB-27-15 (890-1018-16), SB-20-2 (890-1018-17), SB-20-4 (890-1018-18), SB-20-10 (890-1018-19), SB-20-15 (890-1018-20), SB-17-2 (890-1018-21), SB-17-4 (890-1018-22), SB-17-10 (890-1018-23), SB-17-15 (890-1018-24), SB-13-2 (890-1018-25), SB-13-4 (890-1018-26), SB-13-10 (890-1018-27), SB-13-15 (890-1018-28), SB-39-2 (890-1018-29), SB-39-4 (890-1018-30), SB-23-10 (890-1018-31), SB-13-4 (890-1018-32), SB-13-6 (890-1018-33), SB-13-10 (890-1018-34), SB-13-18 (890-1018-35), SB-13-30 (890-1018-36), SB-40-2 (890-1018-37), SB-40-4 (890-1018-38), SB-40-10 (890-1018-39), SB-40-15 (890-1018-40), SB-40-20 (890-1018-41), SB-21-2 (890-1018-42), SB-21-4 (890-1018-43), SB-21-10 (890-1018-44), SB-21-15 (890-1018-45), SB-21-20 (890-1018-46), SB-32-2 (890-1018-47), SB-32-4 (890-1018-48), SB-32-10 (890-1018-49), SB-32-15 (890-1018-50) and SB-32-20 (890-1018-51). On sample numbered 890-1018-16 The container labels list SB-27-20 7-26-2021 16:40 while the COC lists SB-27-15 7-26-2021 16:40, it is fair to say that with the same date and time that these are the same sample

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-5821 and analytical batch 880-5782 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SB-41-4 (890-1018-2), SB-27-4 (890-1018-14), SB-20-10 (890-1018-19), SB-20-15 (890-1018-20), SB-17-4 (890-1018-22) and SB-13-2 (890-1018-25). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The method blank for preparation batch 880-5882 and analytical batch 880-5915 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-5902 and analytical batch 880-5917 contained OII Range Organics (Over C28-C36) and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-5838 and analytical batch 880-5932 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-41-2

Date Collected: 07/27/21 12:35
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		07/29/21 12:00	07/29/21 17:09	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		07/29/21 12:00	07/29/21 17:09	1
Ethylbenzene	**0.000585**	**J**	0.00201	0.000567	mg/Kg		07/29/21 12:00	07/29/21 17:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		07/29/21 12:00	07/29/21 17:09	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		07/29/21 12:00	07/29/21 17:09	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		07/29/21 12:00	07/29/21 17:09	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg		07/29/21 12:00	07/29/21 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/29/21 12:00*	*07/29/21 17:09*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*07/29/21 12:00*	*07/29/21 17:09*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**16.0**	**J**	50.0	15.0	mg/Kg		07/29/21 16:22	08/01/21 23:41	1
Diesel Range Organics (Over C10-C28)	**15.8**	**J B**	50.0	15.0	mg/Kg		07/29/21 16:22	08/01/21 23:41	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/01/21 23:41	1
Total TPH	**31.8**	**J B**	50.0	15.0	mg/Kg		07/29/21 16:22	08/01/21 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*07/29/21 16:22*	*08/01/21 23:41*	*1*
o-Terphenyl	*95*		*70 - 130*	*07/29/21 16:22*	*08/01/21 23:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.94**		4.97	0.853	mg/Kg			07/30/21 20:37	1

Client Sample ID: SB-41-4

Date Collected: 07/27/21 12:40
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/29/21 12:00	07/29/21 17:29	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		07/29/21 12:00	07/29/21 17:29	1
Ethylbenzene	**0.00141**	**J**	0.00199	0.000563	mg/Kg		07/29/21 12:00	07/29/21 17:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 12:00	07/29/21 17:29	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		07/29/21 12:00	07/29/21 17:29	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 12:00	07/29/21 17:29	1
Total BTEX	**0.00141**	**J**	0.00398	0.00101	mg/Kg		07/29/21 12:00	07/29/21 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*148*	*S1+*	*70 - 130*	*07/29/21 12:00*	*07/29/21 17:29*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/29/21 12:00*	*07/29/21 17:29*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 00:44	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-41-4

Date Collected: 07/27/21 12:40
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-2

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 00:44	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 00:44	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/29/21 16:22*	*08/02/21 00:44*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/29/21 16:22*	*08/02/21 00:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.68**		4.99	0.857	mg/Kg			07/30/21 20:42	1

Client Sample ID: SB-41-10

Date Collected: 07/27/21 12:45
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/29/21 12:00	07/29/21 19:19	1
Toluene	**0.000585**	**J**	0.00199	0.000453	mg/Kg		07/29/21 12:00	07/29/21 19:19	1
Ethylbenzene	**0.00104**	**J**	0.00199	0.000562	mg/Kg		07/29/21 12:00	07/29/21 19:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		07/29/21 12:00	07/29/21 19:19	1
o-Xylene	**0.000422**	**J**	0.00199	0.000342	mg/Kg		07/29/21 12:00	07/29/21 19:19	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		07/29/21 12:00	07/29/21 19:19	1
Total BTEX	**0.00205**	**J**	0.00398	0.00100	mg/Kg		07/29/21 12:00	07/29/21 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*07/29/21 12:00*	*07/29/21 19:19*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/29/21 12:00*	*07/29/21 19:19*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 01:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 01:04	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 01:04	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 01:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*07/29/21 16:22*	*08/02/21 01:04*	*1*
o-Terphenyl	*96*		*70 - 130*	*07/29/21 16:22*	*08/02/21 01:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**57.6**		5.04	0.865	mg/Kg			07/30/21 20:47	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-41-15

Date Collected: 07/27/21 12:50
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		07/29/21 12:00	07/29/21 19:40	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		07/29/21 12:00	07/29/21 19:40	1
Ethylbenzene	**0.00119**	**J**	0.00201	0.000567	mg/Kg		07/29/21 12:00	07/29/21 19:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		07/29/21 12:00	07/29/21 19:40	1
o-Xylene	**0.000545**	**J**	0.00201	0.000345	mg/Kg		07/29/21 12:00	07/29/21 19:40	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		07/29/21 12:00	07/29/21 19:40	1
Total BTEX	**0.00174**	**J**	0.00402	0.00101	mg/Kg		07/29/21 12:00	07/29/21 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/29/21 12:00*	*07/29/21 19:40*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/29/21 12:00*	*07/29/21 19:40*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 01:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 01:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 01:25	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*07/29/21 16:22*	*08/02/21 01:25*	*1*
o-Terphenyl	*101*		*70 - 130*	*07/29/21 16:22*	*08/02/21 01:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.5**		4.98	0.855	mg/Kg			07/30/21 20:53	1

Client Sample ID: SB-42-2

Date Collected: 07/27/21 14:15
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-5
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		07/29/21 12:00	07/29/21 20:00	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		07/29/21 12:00	07/29/21 20:00	1
Ethylbenzene	**0.00131**	**J**	0.00201	0.000568	mg/Kg		07/29/21 12:00	07/29/21 20:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		07/29/21 12:00	07/29/21 20:00	1
o-Xylene	**0.000361**	**J**	0.00201	0.000346	mg/Kg		07/29/21 12:00	07/29/21 20:00	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		07/29/21 12:00	07/29/21 20:00	1
Total BTEX	**0.00167**	**J**	0.00402	0.00102	mg/Kg		07/29/21 12:00	07/29/21 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/29/21 12:00*	*07/29/21 20:00*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/29/21 12:00*	*07/29/21 20:00*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		07/29/21 16:22	08/02/21 01:46	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-42-2

Date Collected: 07/27/21 14:15
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-5

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		07/29/21 16:22	08/02/21 01:46	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		07/29/21 16:22	08/02/21 01:46	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		07/29/21 16:22	08/02/21 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*07/29/21 16:22*	*08/02/21 01:46*	*1*
o-Terphenyl	*97*		*70 - 130*	*07/29/21 16:22*	*08/02/21 01:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.60**		5.00	0.858	mg/Kg			07/30/21 20:58	1

Client Sample ID: SB-42-4

Date Collected: 07/27/21 14:20
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-6

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		07/29/21 12:00	07/29/21 20:21	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		07/29/21 12:00	07/29/21 20:21	1
Ethylbenzene	**0.000700**	**J**	0.00200	0.000564	mg/Kg		07/29/21 12:00	07/29/21 20:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 12:00	07/29/21 20:21	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		07/29/21 12:00	07/29/21 20:21	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 12:00	07/29/21 20:21	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 12:00	07/29/21 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/29/21 12:00*	*07/29/21 20:21*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/29/21 12:00*	*07/29/21 20:21*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**16.8**	**J**	49.7	14.9	mg/Kg		07/29/21 16:22	08/02/21 02:07	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	14.9	mg/Kg		07/29/21 16:22	08/02/21 02:07	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7	14.9	mg/Kg		07/29/21 16:22	08/02/21 02:07	1
Total TPH	**16.8**	**J B**	49.7	14.9	mg/Kg		07/29/21 16:22	08/02/21 02:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*07/29/21 16:22*	*08/02/21 02:07*	*1*
o-Terphenyl	*93*		*70 - 130*	*07/29/21 16:22*	*08/02/21 02:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.25**		5.00	0.858	mg/Kg			07/30/21 21:03	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-42-10

Date Collected: 07/27/21 14:25
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-7

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/29/21 12:00	07/29/21 20:41	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		07/29/21 12:00	07/29/21 20:41	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		07/29/21 12:00	07/29/21 20:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		07/29/21 12:00	07/29/21 20:41	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		07/29/21 12:00	07/29/21 20:41	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		07/29/21 12:00	07/29/21 20:41	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		07/29/21 12:00	07/29/21 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/29/21 12:00*	*07/29/21 20:41*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/29/21 12:00*	*07/29/21 20:41*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 02:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 02:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 02:27	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*07/29/21 16:22*	*08/02/21 02:27*	*1*
o-Terphenyl	*106*		*70 - 130*	*07/29/21 16:22*	*08/02/21 02:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**112**		5.05	0.867	mg/Kg			07/30/21 21:09	1

Client Sample ID: SB-42-15

Date Collected: 07/27/21 14:30
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-8

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000382	mg/Kg		07/29/21 12:00	07/29/21 21:01	1
Toluene	<0.00198	U	0.00198	0.000452	mg/Kg		07/29/21 12:00	07/29/21 21:01	1
Ethylbenzene	<0.00198	U	0.00198	0.000561	mg/Kg		07/29/21 12:00	07/29/21 21:01	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00100	mg/Kg		07/29/21 12:00	07/29/21 21:01	1
o-Xylene	**0.000529**	**J**	0.00198	0.000341	mg/Kg		07/29/21 12:00	07/29/21 21:01	1
Xylenes, Total	<0.00397	U	0.00397	0.00100	mg/Kg		07/29/21 12:00	07/29/21 21:01	1
Total BTEX	<0.00397	U	0.00397	0.00100	mg/Kg		07/29/21 12:00	07/29/21 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/29/21 12:00*	*07/29/21 21:01*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/29/21 12:00*	*07/29/21 21:01*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 02:48	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-42-15

Date Collected: 07/27/21 14:30
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-8
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	**20.2**	**J B**	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 02:48	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 02:48	1
Total TPH	**20.2**	**J B**	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*07/29/21 16:22*	*08/02/21 02:48*	*1*
o-Terphenyl	*96*		*70 - 130*	*07/29/21 16:22*	*08/02/21 02:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.3**	**F1**	4.98	0.855	mg/Kg			07/31/21 00:38	1

Client Sample ID: SB-23-2

Date Collected: 07/27/21 15:00
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-9
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		07/29/21 12:00	07/29/21 21:22	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		07/29/21 12:00	07/29/21 21:22	1
Ethylbenzene	**0.000637**	**J**	0.00198	0.000559	mg/Kg		07/29/21 12:00	07/29/21 21:22	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		07/29/21 12:00	07/29/21 21:22	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		07/29/21 12:00	07/29/21 21:22	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		07/29/21 12:00	07/29/21 21:22	1
Total BTEX	<0.00396	U	0.00396	0.00100	mg/Kg		07/29/21 12:00	07/29/21 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/29/21 12:00*	*07/29/21 21:22*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/29/21 12:00*	*07/29/21 21:22*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 03:09	1
Diesel Range Organics (Over C10-C28)	**21.1**	**J B**	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 03:09	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 03:09	1
Total TPH	**21.1**	**J B**	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*07/29/21 16:22*	*08/02/21 03:09*	*1*
o-Terphenyl	*97*		*70 - 130*	*07/29/21 16:22*	*08/02/21 03:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.79**		5.04	0.865	mg/Kg			07/31/21 00:55	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-23-4
Date Collected: 07/27/21 15:05
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-10
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		07/29/21 12:00	07/29/21 21:42	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		07/29/21 12:00	07/29/21 21:42	1
Ethylbenzene	**0.000911**	**J**	0.00200	0.000566	mg/Kg		07/29/21 12:00	07/29/21 21:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		07/29/21 12:00	07/29/21 21:42	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		07/29/21 12:00	07/29/21 21:42	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		07/29/21 12:00	07/29/21 21:42	1
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg		07/29/21 12:00	07/29/21 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/29/21 12:00*	*07/29/21 21:42*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/29/21 12:00*	*07/29/21 21:42*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 03:30	1
Diesel Range Organics (Over C10-C28)	**16.1**	**J B**	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 03:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 03:30	1
Total TPH	**16.1**	**J B**	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 03:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*07/29/21 16:22*	*08/02/21 03:30*	*1*
o-Terphenyl	*94*		*70 - 130*	*07/29/21 16:22*	*08/02/21 03:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.1**		4.99	0.857	mg/Kg			07/31/21 01:00	1

Client Sample ID: SB-39-10
Date Collected: 07/26/21 13:20
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-11
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/29/21 12:00	07/29/21 22:02	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		07/29/21 12:00	07/29/21 22:02	1
Ethylbenzene	**0.000712**	**J**	0.00199	0.000563	mg/Kg		07/29/21 12:00	07/29/21 22:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 12:00	07/29/21 22:02	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		07/29/21 12:00	07/29/21 22:02	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 12:00	07/29/21 22:02	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 12:00	07/29/21 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/29/21 12:00*	*07/29/21 22:02*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/29/21 12:00*	*07/29/21 22:02*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-39-10

Lab Sample ID: 890-1018-11
Matrix: Solid
Date Collected: 07/26/21 13:20
Date Received: 07/28/21 11:45

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:12	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:12	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*07/29/21 16:22*	*08/02/21 04:12*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/29/21 16:22*	*08/02/21 04:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.81**		4.95	0.850	mg/Kg			07/31/21 01:05	1

Client Sample ID: SB-39-15

Lab Sample ID: 890-1018-12
Matrix: Solid
Date Collected: 07/26/21 13:25
Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		07/29/21 12:00	07/29/21 22:23	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		07/29/21 12:00	07/29/21 22:23	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		07/29/21 12:00	07/29/21 22:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 12:00	07/29/21 22:23	1
o-Xylene	**0.000345**	**J**	0.00200	0.000343	mg/Kg		07/29/21 12:00	07/29/21 22:23	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 12:00	07/29/21 22:23	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 12:00	07/29/21 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/29/21 12:00*	*07/29/21 22:23*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/29/21 12:00*	*07/29/21 22:23*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:33	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:33	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*07/29/21 16:22*	*08/02/21 04:33*	*1*
o-Terphenyl	*93*		*70 - 130*	*07/29/21 16:22*	*08/02/21 04:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.9**		5.02	0.862	mg/Kg			07/31/21 01:11	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-27-2

Date Collected: 07/26/21 09:30
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-13

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1	0.00202	0.000388	mg/Kg		07/29/21 13:38	07/30/21 02:00	1
Toluene	<0.00202	U F2 F1	0.00202	0.000460	mg/Kg		07/29/21 13:38	07/30/21 02:00	1
Ethylbenzene	**0.000600**	**J F2 F1**	0.00202	0.000570	mg/Kg		07/29/21 13:38	07/30/21 02:00	1
m-Xylene & p-Xylene	<0.00403	U F1	0.00403	0.00102	mg/Kg		07/29/21 13:38	07/30/21 02:00	1
o-Xylene	**0.000360**	**J F1**	0.00202	0.000347	mg/Kg		07/29/21 13:38	07/30/21 02:00	1
Xylenes, Total	<0.00403	U F1	0.00403	0.00102	mg/Kg		07/29/21 13:38	07/30/21 02:00	1
Total BTEX	<0.00403	U F1	0.00403	0.00102	mg/Kg		07/29/21 13:38	07/30/21 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*07/29/21 13:38*	*07/30/21 02:00*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/29/21 13:38*	*07/30/21 02:00*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:54	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:54	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 04:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*07/29/21 16:22*	*08/02/21 04:54*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/29/21 16:22*	*08/02/21 04:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.84**		4.98	0.855	mg/Kg			07/31/21 01:27	1

Client Sample ID: SB-27-4

Date Collected: 07/26/21 16:30
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-14

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000492**	**J**	0.00200	0.000384	mg/Kg		07/29/21 13:38	07/30/21 02:20	1
Toluene	**0.000749**	**J**	0.00200	0.000455	mg/Kg		07/29/21 13:38	07/30/21 02:20	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		07/29/21 13:38	07/30/21 02:20	1
m-Xylene & p-Xylene	**0.00150**	**J**	0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 02:20	1
o-Xylene	**0.00155**	**J**	0.00200	0.000343	mg/Kg		07/29/21 13:38	07/30/21 02:20	1
Xylenes, Total	**0.00305**	**J**	0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 02:20	1
Total BTEX	**0.00429**		0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 02:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*149*	*S1+*	*70 - 130*	*07/29/21 13:38*	*07/30/21 02:20*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/29/21 13:38*	*07/30/21 02:20*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-27-4

Lab Sample ID: 890-1018-14
Matrix: Solid
Date Collected: 07/26/21 16:30
Date Received: 07/28/21 11:45

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:14	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:14	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*07/29/21 16:22*	*08/02/21 05:14*	*1*
o-Terphenyl	*92*		*70 - 130*	*07/29/21 16:22*	*08/02/21 05:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.47**		4.95	0.850	mg/Kg			07/31/21 01:32	1

Client Sample ID: SB-27-10

Lab Sample ID: 890-1018-15
Matrix: Solid
Date Collected: 07/26/21 16:35
Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/29/21 13:38	07/30/21 02:41	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		07/29/21 13:38	07/30/21 02:41	1
Ethylbenzene	**0.00134**	**J**	0.00199	0.000562	mg/Kg		07/29/21 13:38	07/30/21 02:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		07/29/21 13:38	07/30/21 02:41	1
o-Xylene	**0.000455**	**J**	0.00199	0.000342	mg/Kg		07/29/21 13:38	07/30/21 02:41	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		07/29/21 13:38	07/30/21 02:41	1
Total BTEX	**0.00180**	**J**	0.00398	0.00100	mg/Kg		07/29/21 13:38	07/30/21 02:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/29/21 13:38*	*07/30/21 02:41*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/29/21 13:38*	*07/30/21 02:41*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:35	1
Diesel Range Organics (Over C10-C28)	**16.0**	**J B**	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:35	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:35	1
Total TPH	**16.0**	**J B**	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*07/29/21 16:22*	*08/02/21 05:35*	*1*
o-Terphenyl	*94*		*70 - 130*	*07/29/21 16:22*	*08/02/21 05:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**779**		5.04	0.865	mg/Kg			07/31/21 01:38	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-27-15

Date Collected: 07/26/21 16:40
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-16
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/29/21 13:38	07/30/21 03:01	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		07/29/21 13:38	07/30/21 03:01	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		07/29/21 13:38	07/30/21 03:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 13:38	07/30/21 03:01	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		07/29/21 13:38	07/30/21 03:01	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 13:38	07/30/21 03:01	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 13:38	07/30/21 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/29/21 13:38*	*07/30/21 03:01*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/29/21 13:38*	*07/30/21 03:01*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:56	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 05:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*07/29/21 16:22*	*08/02/21 05:56*	*1*
o-Terphenyl	*93*		*70 - 130*	*07/29/21 16:22*	*08/02/21 05:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**138**		5.01	0.860	mg/Kg			07/31/21 01:43	1

Client Sample ID: SB-20-2

Date Collected: 07/27/21 09:00
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-17
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		07/29/21 13:38	07/30/21 03:22	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		07/29/21 13:38	07/30/21 03:22	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		07/29/21 13:38	07/30/21 03:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 03:22	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		07/29/21 13:38	07/30/21 03:22	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 03:22	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 03:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/29/21 13:38*	*07/30/21 03:22*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/29/21 13:38*	*07/30/21 03:22*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:17	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-20-2

Date Collected: 07/27/21 09:00
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-17

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:17	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*07/29/21 16:22*	*08/02/21 06:17*	*1*
o-Terphenyl	*89*		*70 - 130*	*07/29/21 16:22*	*08/02/21 06:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.9**		4.98	0.855	mg/Kg			07/31/21 01:48	1

Client Sample ID: SB-20-4

Date Collected: 07/27/21 09:05
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-18

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		07/29/21 13:38	07/30/21 03:42	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		07/29/21 13:38	07/30/21 03:42	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		07/29/21 13:38	07/30/21 03:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		07/29/21 13:38	07/30/21 03:42	1
o-Xylene	**0.000353**	**J**	0.00200	0.000345	mg/Kg		07/29/21 13:38	07/30/21 03:42	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		07/29/21 13:38	07/30/21 03:42	1
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg		07/29/21 13:38	07/30/21 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/29/21 13:38*	*07/30/21 03:42*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/29/21 13:38*	*07/30/21 03:42*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**15.4**	**J**	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:38	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:38	1
Total TPH	**15.4**	**J B**	49.9	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*07/29/21 16:22*	*08/02/21 06:38*	*1*
o-Terphenyl	*92*		*70 - 130*	*07/29/21 16:22*	*08/02/21 06:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.1**		5.00	0.858	mg/Kg			07/31/21 01:54	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-20-10

Date Collected: 07/27/21 09:10
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-19

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000507**	**J**	0.00201	0.000387	mg/Kg		07/29/21 13:38	07/30/21 04:02	1
Toluene	**0.00117**	**J**	0.00201	0.000458	mg/Kg		07/29/21 13:38	07/30/21 04:02	1
Ethylbenzene	**0.000736**	**J**	0.00201	0.000567	mg/Kg		07/29/21 13:38	07/30/21 04:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		07/29/21 13:38	07/30/21 04:02	1
o-Xylene	**0.000783**	**J**	0.00201	0.000345	mg/Kg		07/29/21 13:38	07/30/21 04:02	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		07/29/21 13:38	07/30/21 04:02	1
Total BTEX	**0.00320**	**J**	0.00402	0.00101	mg/Kg		07/29/21 13:38	07/30/21 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*07/29/21 13:38*	*07/30/21 04:02*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*07/29/21 13:38*	*07/30/21 04:02*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:59	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:59	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 06:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*07/29/21 16:22*	*08/02/21 06:59*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/29/21 16:22*	*08/02/21 06:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**165**		4.99	0.857	mg/Kg			07/31/21 02:10	1

Client Sample ID: SB-20-15

Date Collected: 07/27/21 09:15
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-20

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000505**	**J**	0.00200	0.000386	mg/Kg		07/29/21 13:38	07/30/21 04:23	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		07/29/21 13:38	07/30/21 04:23	1
Ethylbenzene	**0.00114**	**J**	0.00200	0.000566	mg/Kg		07/29/21 13:38	07/30/21 04:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		07/29/21 13:38	07/30/21 04:23	1
o-Xylene	**0.000966**	**J**	0.00200	0.000345	mg/Kg		07/29/21 13:38	07/30/21 04:23	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		07/29/21 13:38	07/30/21 04:23	1
Total BTEX	**0.00261**	**J**	0.00401	0.00101	mg/Kg		07/29/21 13:38	07/30/21 04:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*07/29/21 13:38*	*07/30/21 04:23*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/29/21 13:38*	*07/30/21 04:23*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 07:20	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-20-15

Lab Sample ID: 890-1018-20
Matrix: Solid
Date Collected: 07/27/21 09:15
Date Received: 07/28/21 11:45

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 07:20	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 07:20	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/02/21 07:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*07/29/21 16:22*	*08/02/21 07:20*	*1*
o-Terphenyl	*100*		*70 - 130*	*07/29/21 16:22*	*08/02/21 07:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2400**		25.2	4.33	mg/Kg			07/31/21 02:15	5

Client Sample ID: SB-17-2

Lab Sample ID: 890-1018-21
Matrix: Solid
Date Collected: 07/26/21 09:20
Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		07/29/21 13:38	07/30/21 04:43	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		07/29/21 13:38	07/30/21 04:43	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		07/29/21 13:38	07/30/21 04:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		07/29/21 13:38	07/30/21 04:43	1
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg		07/29/21 13:38	07/30/21 04:43	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		07/29/21 13:38	07/30/21 04:43	1
Total BTEX	<0.00402	U	0.00402	0.00102	mg/Kg		07/29/21 13:38	07/30/21 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*07/29/21 13:38*	*07/30/21 04:43*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/29/21 13:38*	*07/30/21 04:43*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 13:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 13:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 13:03	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*07/30/21 13:47*	*07/31/21 13:03*	*1*
o-Terphenyl	*107*		*70 - 130*	*07/30/21 13:47*	*07/31/21 13:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.2**		5.02	0.862	mg/Kg			07/31/21 02:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-17-4

Date Collected: 07/26/21 11:30
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-22

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000583**	**J**	0.00200	0.000386	mg/Kg		07/29/21 13:38	07/30/21 05:04	1
Toluene	**0.00283**		0.00200	0.000457	mg/Kg		07/29/21 13:38	07/30/21 05:04	1
Ethylbenzene	**0.000943**	**J**	0.00200	0.000566	mg/Kg		07/29/21 13:38	07/30/21 05:04	1
m-Xylene & p-Xylene	**0.00209**	**J**	0.00401	0.00101	mg/Kg		07/29/21 13:38	07/30/21 05:04	1
o-Xylene	**0.00264**		0.00200	0.000345	mg/Kg		07/29/21 13:38	07/30/21 05:04	1
Xylenes, Total	**0.00473**		0.00401	0.00101	mg/Kg		07/29/21 13:38	07/30/21 05:04	1
Total BTEX	**0.00909**		0.00401	0.00101	mg/Kg		07/29/21 13:38	07/30/21 05:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*156*	*S1+*	*70 - 130*	*07/29/21 13:38*	*07/30/21 05:04*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/29/21 13:38*	*07/30/21 05:04*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:07	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:07	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*07/30/21 13:47*	*07/31/21 14:07*	*1*
o-Terphenyl	*107*		*70 - 130*	*07/30/21 13:47*	*07/31/21 14:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.38**		5.00	0.858	mg/Kg			07/31/21 02:37	1

Client Sample ID: SB-17-10

Date Collected: 07/26/21 11:35
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-23

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		07/29/21 13:38	07/30/21 06:53	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		07/29/21 13:38	07/30/21 06:53	1
Ethylbenzene	**0.000644**	**J**	0.00202	0.000570	mg/Kg		07/29/21 13:38	07/30/21 06:53	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		07/29/21 13:38	07/30/21 06:53	1
o-Xylene	**0.000380**	**J**	0.00202	0.000347	mg/Kg		07/29/21 13:38	07/30/21 06:53	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		07/29/21 13:38	07/30/21 06:53	1
Total BTEX	**0.00102**	**J**	0.00403	0.00102	mg/Kg		07/29/21 13:38	07/30/21 06:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*07/29/21 13:38*	*07/30/21 06:53*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/29/21 13:38*	*07/30/21 06:53*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:28	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-17-10

Lab Sample ID: 890-1018-23
Matrix: Solid
Date Collected: 07/26/21 11:35
Date Received: 07/28/21 11:45

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:28	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:28	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*07/30/21 13:47*	*07/31/21 14:28*	*1*
o-Terphenyl	*104*		*70 - 130*	*07/30/21 13:47*	*07/31/21 14:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.58**		4.98	0.855	mg/Kg			07/31/21 02:42	1

Client Sample ID: SB-17-15

Lab Sample ID: 890-1018-24
Matrix: Solid
Date Collected: 07/26/21 11:40
Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		07/29/21 13:38	07/30/21 07:13	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		07/29/21 13:38	07/30/21 07:13	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		07/29/21 13:38	07/30/21 07:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		07/29/21 13:38	07/30/21 07:13	1
o-Xylene	**0.000640**	**J**	0.00201	0.000345	mg/Kg		07/29/21 13:38	07/30/21 07:13	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		07/29/21 13:38	07/30/21 07:13	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg		07/29/21 13:38	07/30/21 07:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/29/21 13:38*	*07/30/21 07:13*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/29/21 13:38*	*07/30/21 07:13*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:49	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*07/30/21 13:47*	*07/31/21 14:49*	*1*
o-Terphenyl	*100*		*70 - 130*	*07/30/21 13:47*	*07/31/21 14:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**101**		4.95	0.850	mg/Kg			07/31/21 02:48	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-13-2

Date Collected: 07/25/21 09:00
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-25

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00183**	**J**	0.00200	0.000384	mg/Kg		07/29/21 13:38	07/30/21 07:34	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		07/29/21 13:38	07/30/21 07:34	1
Ethylbenzene	**0.00188**	**J**	0.00200	0.000564	mg/Kg		07/29/21 13:38	07/30/21 07:34	1
m-Xylene & p-Xylene	**0.00432**		0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 07:34	1
o-Xylene	**0.00709**		0.00200	0.000343	mg/Kg		07/29/21 13:38	07/30/21 07:34	1
Xylenes, Total	**0.0114**		0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 07:34	1
Total BTEX	**0.0151**		0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 07:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*07/29/21 13:38*	*07/30/21 07:34*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/29/21 13:38*	*07/30/21 07:34*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		07/30/21 13:47	07/31/21 15:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		07/30/21 13:47	07/31/21 15:10	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		07/30/21 13:47	07/31/21 15:10	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		07/30/21 13:47	07/31/21 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/30/21 13:47*	*07/31/21 15:10*	*1*
o-Terphenyl	*114*		*70 - 130*	*07/30/21 13:47*	*07/31/21 15:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.77**		4.95	0.850	mg/Kg			07/31/21 02:53	1

Client Sample ID: SB-13-10

Date Collected: 07/25/21 09:10
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-27

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		07/29/21 13:38	07/30/21 08:14	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		07/29/21 13:38	07/30/21 08:14	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		07/29/21 13:38	07/30/21 08:14	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		07/29/21 13:38	07/30/21 08:14	1
o-Xylene	**0.000388**	**J**	0.00202	0.000347	mg/Kg		07/29/21 13:38	07/30/21 08:14	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		07/29/21 13:38	07/30/21 08:14	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		07/29/21 13:38	07/30/21 08:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*07/29/21 13:38*	*07/30/21 08:14*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/29/21 13:38*	*07/30/21 08:14*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 15:52	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-13-10

Lab Sample ID: 890-1018-27
Matrix: Solid
Date Collected: 07/25/21 09:10
Date Received: 07/28/21 11:45

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 15:52	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 15:52	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*07/30/21 13:47*	*07/31/21 15:52*	*1*
o-Terphenyl	*111*		*70 - 130*	*07/30/21 13:47*	*07/31/21 15:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.72**		4.96	0.851	mg/Kg			07/31/21 03:04	1

Client Sample ID: SB-39-2

Lab Sample ID: 890-1018-29
Matrix: Solid
Date Collected: 07/26/21 09:25
Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		07/29/21 13:38	07/30/21 08:55	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		07/29/21 13:38	07/30/21 08:55	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		07/29/21 13:38	07/30/21 08:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 08:55	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		07/29/21 13:38	07/30/21 08:55	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 08:55	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		07/29/21 13:38	07/30/21 08:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/29/21 13:38*	*07/30/21 08:55*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/29/21 13:38*	*07/30/21 08:55*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:13	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*07/30/21 13:47*	*07/31/21 16:13*	*1*
o-Terphenyl	*102*		*70 - 130*	*07/30/21 13:47*	*07/31/21 16:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.36**		4.95	0.850	mg/Kg			07/31/21 06:02	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-39-4
Date Collected: 07/26/21 13:15
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-30
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/29/21 13:38	07/30/21 09:16	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		07/29/21 13:38	07/30/21 09:16	1
Ethylbenzene	**0.000622**	**J**	0.00199	0.000563	mg/Kg		07/29/21 13:38	07/30/21 09:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 13:38	07/30/21 09:16	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		07/29/21 13:38	07/30/21 09:16	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 13:38	07/30/21 09:16	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		07/29/21 13:38	07/30/21 09:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/29/21 13:38*	*07/30/21 09:16*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/29/21 13:38*	*07/30/21 09:16*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:34	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:34	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*07/30/21 13:47*	*07/31/21 16:34*	*1*
o-Terphenyl	*110*		*70 - 130*	*07/30/21 13:47*	*07/31/21 16:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.86**		5.05	0.867	mg/Kg			07/31/21 06:07	1

Client Sample ID: SB-23-10
Date Collected: 07/27/21 15:10
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-31
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/29/21 13:38	07/30/21 09:36	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		07/29/21 13:38	07/30/21 09:36	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		07/29/21 13:38	07/30/21 09:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		07/29/21 13:38	07/30/21 09:36	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		07/29/21 13:38	07/30/21 09:36	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		07/29/21 13:38	07/30/21 09:36	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		07/29/21 13:38	07/30/21 09:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/29/21 13:38*	*07/30/21 09:36*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/29/21 13:38*	*07/30/21 09:36*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:55	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-23-10

Lab Sample ID: 890-1018-31
Matrix: Solid
Date Collected: 07/27/21 15:10
Date Received: 07/28/21 11:45

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:55	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:55	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/30/21 13:47*	*07/31/21 16:55*	*1*
o-Terphenyl	*115*		*70 - 130*	*07/30/21 13:47*	*07/31/21 16:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.4**		4.97	0.853	mg/Kg			07/31/21 06:12	1

Client Sample ID: SB-13-4

Lab Sample ID: 890-1018-32
Matrix: Solid
Date Collected: 07/25/21 09:05
Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		07/30/21 09:30	07/31/21 00:44	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		07/30/21 09:30	07/31/21 00:44	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		07/30/21 09:30	07/31/21 00:44	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		07/30/21 09:30	07/31/21 00:44	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		07/30/21 09:30	07/31/21 00:44	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		07/30/21 09:30	07/31/21 00:44	1
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg		07/30/21 09:30	07/31/21 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*07/30/21 09:30*	*07/31/21 00:44*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/30/21 09:30*	*07/31/21 00:44*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 17:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 17:38	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 17:38	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*07/30/21 13:47*	*07/31/21 17:38*	*1*
o-Terphenyl	*103*		*70 - 130*	*07/30/21 13:47*	*07/31/21 17:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.8**		5.01	0.860	mg/Kg			07/31/21 07:49	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-13-18
Date Collected: 07/25/21 09:25
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-35
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		07/30/21 09:30	07/31/21 01:45	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		07/30/21 09:30	07/31/21 01:45	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		07/30/21 09:30	07/31/21 01:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		07/30/21 09:30	07/31/21 01:45	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		07/30/21 09:30	07/31/21 01:45	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		07/30/21 09:30	07/31/21 01:45	1
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg		07/30/21 09:30	07/31/21 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/30/21 09:30*	*07/31/21 01:45*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/30/21 09:30*	*07/31/21 01:45*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 18:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 18:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 18:20	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/30/21 13:47*	*07/31/21 18:20*	*1*
o-Terphenyl	*112*		*70 - 130*	*07/30/21 13:47*	*07/31/21 18:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.6**		5.00	0.858	mg/Kg			07/31/21 08:06	1

Client Sample ID: SB-13-30
Date Collected: 07/25/21 09:30
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-36
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/30/21 09:30	07/31/21 02:06	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		07/30/21 09:30	07/31/21 02:06	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		07/30/21 09:30	07/31/21 02:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		07/30/21 09:30	07/31/21 02:06	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		07/30/21 09:30	07/31/21 02:06	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		07/30/21 09:30	07/31/21 02:06	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		07/30/21 09:30	07/31/21 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/30/21 09:30*	*07/31/21 02:06*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/30/21 09:30*	*07/31/21 02:06*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 18:41	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-13-30

Lab Sample ID: 890-1018-36
Matrix: Solid
Date Collected: 07/25/21 09:30
Date Received: 07/28/21 11:45

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 18:41	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 18:41	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*07/30/21 13:47*	*07/31/21 18:41*	*1*
o-Terphenyl	*109*		*70 - 130*	*07/30/21 13:47*	*07/31/21 18:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**	**F1**	4.95	0.850	mg/Kg			07/31/21 08:11	1

Client Sample ID: SB-40-2

Lab Sample ID: 890-1018-37
Matrix: Solid
Date Collected: 07/26/21 16:50
Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/30/21 09:30	07/31/21 02:26	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		07/30/21 09:30	07/31/21 02:26	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		07/30/21 09:30	07/31/21 02:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		07/30/21 09:30	07/31/21 02:26	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		07/30/21 09:30	07/31/21 02:26	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		07/30/21 09:30	07/31/21 02:26	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		07/30/21 09:30	07/31/21 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/30/21 09:30*	*07/31/21 02:26*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*07/30/21 09:30*	*07/31/21 02:26*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:02	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:02	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*07/30/21 13:47*	*07/31/21 19:02*	*1*
o-Terphenyl	*107*		*70 - 130*	*07/30/21 13:47*	*07/31/21 19:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.3**		5.04	0.865	mg/Kg			07/31/21 08:27	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-40-4

Date Collected: 07/26/21 16:55
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-38

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/30/21 09:30	07/31/21 02:46	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		07/30/21 09:30	07/31/21 02:46	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		07/30/21 09:30	07/31/21 02:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		07/30/21 09:30	07/31/21 02:46	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		07/30/21 09:30	07/31/21 02:46	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		07/30/21 09:30	07/31/21 02:46	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		07/30/21 09:30	07/31/21 02:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*07/30/21 09:30*	*07/31/21 02:46*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/30/21 09:30*	*07/31/21 02:46*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:23	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*07/30/21 13:47*	*07/31/21 19:23*	*1*
o-Terphenyl	*104*		*70 - 130*	*07/30/21 13:47*	*07/31/21 19:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.9**		4.97	0.853	mg/Kg			07/31/21 08:33	1

Client Sample ID: SB-40-10

Date Collected: 07/26/21 17:00
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-39

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		07/30/21 09:30	07/31/21 03:07	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		07/30/21 09:30	07/31/21 03:07	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		07/30/21 09:30	07/31/21 03:07	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		07/30/21 09:30	07/31/21 03:07	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		07/30/21 09:30	07/31/21 03:07	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		07/30/21 09:30	07/31/21 03:07	1
Total BTEX	<0.00396	U	0.00396	0.00100	mg/Kg		07/30/21 09:30	07/31/21 03:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/30/21 09:30*	*07/31/21 03:07*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/30/21 09:30*	*07/31/21 03:07*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:44	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-40-10

Lab Sample ID: 890-1018-39
Matrix: Solid
Date Collected: 07/26/21 17:00
Date Received: 07/28/21 11:45

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:44	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*07/30/21 13:47*	*07/31/21 19:44*	*1*
o-Terphenyl	*110*		*70 - 130*	*07/30/21 13:47*	*07/31/21 19:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**649**		4.99	0.857	mg/Kg			07/31/21 08:49	1

Client Sample ID: SB-40-15

Lab Sample ID: 890-1018-40
Matrix: Solid
Date Collected: 07/26/21 17:05
Date Received: 07/28/21 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		07/30/21 09:30	07/31/21 03:27	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		07/30/21 09:30	07/31/21 03:27	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		07/30/21 09:30	07/31/21 03:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		07/30/21 09:30	07/31/21 03:27	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		07/30/21 09:30	07/31/21 03:27	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		07/30/21 09:30	07/31/21 03:27	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		07/30/21 09:30	07/31/21 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/30/21 09:30*	*07/31/21 03:27*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/30/21 09:30*	*07/31/21 03:27*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:05	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:05	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*07/30/21 13:47*	*07/31/21 20:05*	*1*
o-Terphenyl	*114*		*70 - 130*	*07/30/21 13:47*	*07/31/21 20:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.0**		5.00	0.858	mg/Kg			07/31/21 08:54	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-21-2

Date Collected: 07/27/21 10:30
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-42

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		07/30/21 09:30	07/31/21 05:09	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		07/30/21 09:30	07/31/21 05:09	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		07/30/21 09:30	07/31/21 05:09	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		07/30/21 09:30	07/31/21 05:09	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		07/30/21 09:30	07/31/21 05:09	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		07/30/21 09:30	07/31/21 05:09	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		07/30/21 09:30	07/31/21 05:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/30/21 09:30*	*07/31/21 05:09*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/30/21 09:30*	*07/31/21 05:09*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:26	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:26	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*07/30/21 13:47*	*07/31/21 20:26*	*1*
o-Terphenyl	*122*		*70 - 130*	*07/30/21 13:47*	*07/31/21 20:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.2**		4.98	0.855	mg/Kg			07/31/21 08:59	1

Client Sample ID: SB-21-4

Date Collected: 07/27/21 10:35
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-43

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/30/21 09:30	07/31/21 05:29	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		07/30/21 09:30	07/31/21 05:29	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		07/30/21 09:30	07/31/21 05:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		07/30/21 09:30	07/31/21 05:29	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		07/30/21 09:30	07/31/21 05:29	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		07/30/21 09:30	07/31/21 05:29	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		07/30/21 09:30	07/31/21 05:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*07/30/21 09:30*	*07/31/21 05:29*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/30/21 09:30*	*07/31/21 05:29*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:47	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-21-4

Date Collected: 07/27/21 10:35
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-43

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:47	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/30/21 13:47*	*07/31/21 20:47*	*1*
o-Terphenyl	*114*		*70 - 130*	*07/30/21 13:47*	*07/31/21 20:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**157**		4.99	0.857	mg/Kg			07/31/21 09:05	1

Client Sample ID: SB-21-10

Date Collected: 07/27/21 10:40
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-44

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		07/30/21 09:30	07/31/21 05:50	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		07/30/21 09:30	07/31/21 05:50	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		07/30/21 09:30	07/31/21 05:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		07/30/21 09:30	07/31/21 05:50	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		07/30/21 09:30	07/31/21 05:50	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		07/30/21 09:30	07/31/21 05:50	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg		07/30/21 09:30	07/31/21 05:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*07/30/21 09:30*	*07/31/21 05:50*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*07/30/21 09:30*	*07/31/21 05:50*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:13	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*07/30/21 14:36*	*07/31/21 16:13*	*1*
o-Terphenyl	*112*		*70 - 130*	*07/30/21 14:36*	*07/31/21 16:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7080**		49.9	8.57	mg/Kg			07/31/21 09:10	10

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-21-20

Date Collected: 07/27/21 10:50
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-46
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		07/30/21 09:30	07/31/21 06:31	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		07/30/21 09:30	07/31/21 06:31	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		07/30/21 09:30	07/31/21 06:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		07/30/21 09:30	07/31/21 06:31	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		07/30/21 09:30	07/31/21 06:31	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		07/30/21 09:30	07/31/21 06:31	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		07/30/21 09:30	07/31/21 06:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/30/21 09:30*	*07/31/21 06:31*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/30/21 09:30*	*07/31/21 06:31*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**25.3**	**J**	49.9	15.0	mg/Kg		08/03/21 15:37	08/04/21 00:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/03/21 15:37	08/04/21 00:40	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/03/21 15:37	08/04/21 00:40	1
Total TPH	**25.3**	**J**	49.9	15.0	mg/Kg		08/03/21 15:37	08/04/21 00:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*08/03/21 15:37*	*08/04/21 00:40*	*1*
o-Terphenyl	*90*		*70 - 130*	*08/03/21 15:37*	*08/04/21 00:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4850**		25.0	4.29	mg/Kg			08/05/21 04:37	5

Client Sample ID: SB-32-2

Date Collected: 07/27/21 15:20
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-47
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		07/30/21 09:30	07/31/21 06:51	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		07/30/21 09:30	07/31/21 06:51	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		07/30/21 09:30	07/31/21 06:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		07/30/21 09:30	07/31/21 06:51	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		07/30/21 09:30	07/31/21 06:51	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		07/30/21 09:30	07/31/21 06:51	1
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg		07/30/21 09:30	07/31/21 06:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/30/21 09:30*	*07/31/21 06:51*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/30/21 09:30*	*07/31/21 06:51*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:34	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-32-2

Date Collected: 07/27/21 15:20
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-47

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:34	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:34	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*07/30/21 14:36*	*07/31/21 16:34*	*1*
o-Terphenyl	*115*		*70 - 130*	*07/30/21 14:36*	*07/31/21 16:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.39**		4.99	0.857	mg/Kg			07/31/21 23:48	1

Client Sample ID: SB-32-4

Date Collected: 07/27/21 15:25
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-48

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		07/30/21 09:30	07/31/21 07:12	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		07/30/21 09:30	07/31/21 07:12	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		07/30/21 09:30	07/31/21 07:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		07/30/21 09:30	07/31/21 07:12	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		07/30/21 09:30	07/31/21 07:12	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		07/30/21 09:30	07/31/21 07:12	1
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg		07/30/21 09:30	07/31/21 07:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/30/21 09:30*	*07/31/21 07:12*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/30/21 09:30*	*07/31/21 07:12*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:55	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:55	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		07/30/21 14:36	07/31/21 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*07/30/21 14:36*	*07/31/21 16:55*	*1*
o-Terphenyl	*120*		*70 - 130*	*07/30/21 14:36*	*07/31/21 16:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.0**		4.98	0.855	mg/Kg			07/31/21 23:54	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-32-10

Date Collected: 07/27/21 15:30
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-49
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		07/30/21 09:30	07/31/21 07:32	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		07/30/21 09:30	07/31/21 07:32	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		07/30/21 09:30	07/31/21 07:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		07/30/21 09:30	07/31/21 07:32	1
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg		07/30/21 09:30	07/31/21 07:32	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		07/30/21 09:30	07/31/21 07:32	1
Total BTEX	<0.00402	U	0.00402	0.00102	mg/Kg		07/30/21 09:30	07/31/21 07:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/30/21 09:30*	*07/31/21 07:32*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/30/21 09:30*	*07/31/21 07:32*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 17:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 17:38	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 17:38	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*07/30/21 14:36*	*07/31/21 17:38*	*1*
o-Terphenyl	*113*		*70 - 130*	*07/30/21 14:36*	*07/31/21 17:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**91.3**		5.04	0.865	mg/Kg			07/31/21 23:59	1

Client Sample ID: SB-32-15

Date Collected: 07/27/21 15:35
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-50
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		07/30/21 09:30	07/31/21 07:52	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		07/30/21 09:30	07/31/21 07:52	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		07/30/21 09:30	07/31/21 07:52	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		07/30/21 09:30	07/31/21 07:52	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		07/30/21 09:30	07/31/21 07:52	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		07/30/21 09:30	07/31/21 07:52	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		07/30/21 09:30	07/31/21 07:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*07/30/21 09:30*	*07/31/21 07:52*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/30/21 09:30*	*07/31/21 07:52*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 17:59	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-32-15

Date Collected: 07/27/21 15:35
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-50

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 17:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 17:59	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*07/30/21 14:36*	*07/31/21 17:59*	*1*
o-Terphenyl	*117*		*70 - 130*	*07/30/21 14:36*	*07/31/21 17:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**224**		5.00	0.858	mg/Kg			08/01/21 00:05	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1018-1	SB-41-2	113	104
890-1018-2	SB-41-4	148 S1+	89
890-1018-3	SB-41-10	120	88
890-1018-4	SB-41-15	113	93
890-1018-5	SB-42-2	107	99
890-1018-6	SB-42-4	112	98
890-1018-7	SB-42-10	116	99
890-1018-8	SB-42-15	114	94
890-1018-9	SB-23-2	114	98
890-1018-10	SB-23-4	114	98
890-1018-11	SB-39-10	112	99
890-1018-12	SB-39-15	111	96
890-1018-13	SB-27-2	109	97
890-1018-13 MS	SB-27-2	89	98
890-1018-13 MSD	SB-27-2	112	94
890-1018-14	SB-27-4	149 S1+	90
890-1018-15	SB-27-10	116	91
890-1018-16	SB-27-15	111	97
890-1018-17	SB-20-2	111	97
890-1018-18	SB-20-4	116	97
890-1018-19	SB-20-10	138 S1+	72
890-1018-20	SB-20-15	134 S1+	88
890-1018-21	SB-17-2	118	89
890-1018-22	SB-17-4	156 S1+	89
890-1018-23	SB-17-10	106	92
890-1018-24	SB-17-15	116	97
890-1018-25	SB-13-2	138 S1+	92
890-1018-27	SB-13-10	119	95
890-1018-29	SB-39-2	111	96
890-1018-30	SB-39-4	115	98
890-1018-31	SB-23-10	112	100
890-1018-32	SB-13-4	126	103
890-1018-32 MS	SB-13-4	113	106
890-1018-32 MSD	SB-13-4	119	107
890-1018-35	SB-13-18	114	90
890-1018-36	SB-13-30	115	92
890-1018-37	SB-40-2	101	102
890-1018-38	SB-40-4	96	99
890-1018-39	SB-40-10	114	95
890-1018-40	SB-40-15	122	93
890-1018-42	SB-21-2	108	94
890-1018-43	SB-21-4	118	92
890-1018-44	SB-21-10	106	72
890-1018-46	SB-21-20	122	93
890-1018-47	SB-32-2	112	94
890-1018-48	SB-32-4	113	94
890-1018-49	SB-32-10	114	93
890-1018-50	SB-32-15	104	95
LCS 880-5758/1-A	Lab Control Sample	93	94

Surrogate Summary

Client: GHD Services Inc. Job ID: 890-1018-1
Project/Site: Flamenco #1 SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
LCS 880-5821/1-A	Lab Control Sample	100	93
LCS 880-5832/1-A	Lab Control Sample	113	104
LCSD 880-5758/2-A	Lab Control Sample Dup	97	87
LCSD 880-5821/2-A	Lab Control Sample Dup	109	87
LCSD 880-5832/2-A	Lab Control Sample Dup	105	103
MB 880-5758/5-A	Method Blank	112	94
MB 880-5818/5-A	Method Blank	105	92
MB 880-5821/5-A	Method Blank	117	90
MB 880-5832/5-A	Method Blank	115	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1018-1	SB-41-2	89	95
890-1018-1 MS	SB-41-2	87	91
890-1018-1 MSD	SB-41-2	85	87
890-1018-2	SB-41-4	88	99
890-1018-3	SB-41-10	85	96
890-1018-4	SB-41-15	87	101
890-1018-5	SB-42-2	83	97
890-1018-6	SB-42-4	83	93
890-1018-7	SB-42-10	92	106
890-1018-8	SB-42-15	85	96
890-1018-9	SB-23-2	83	97
890-1018-10	SB-23-4	82	94
890-1018-11	SB-39-10	86	99
890-1018-12	SB-39-15	81	93
890-1018-13	SB-27-2	82	99
890-1018-14	SB-27-4	80	92
890-1018-15	SB-27-10	82	94
890-1018-16	SB-27-15	81	93
890-1018-17	SB-20-2	76	89
890-1018-18	SB-20-4	83	92
890-1018-19	SB-20-10	87	99
890-1018-20	SB-20-15	87	100
890-1018-21	SB-17-2	97	107
890-1018-21 MS	SB-17-2	86	87
890-1018-21 MSD	SB-17-2	101	104
890-1018-22	SB-17-4	97	107
890-1018-23	SB-17-10	95	104
890-1018-24	SB-17-15	94	100
890-1018-25	SB-13-2	103	114
890-1018-27	SB-13-10	100	111
890-1018-29	SB-39-2	97	102

Surrogate Summary

Client: GHD Services Inc. Job ID: 890-1018-1
Project/Site: Flamenco #1 SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
890-1018-30	SB-39-4	102	110								
890-1018-31	SB-23-10	103	115								
890-1018-32	SB-13-4	97	103								
890-1018-35	SB-13-18	101	112								
890-1018-36	SB-13-30	99	109								
890-1018-37	SB-40-2	97	107								
890-1018-38	SB-40-4	97	104								
890-1018-39	SB-40-10	100	110								
890-1018-40	SB-40-15	104	114								
890-1018-42	SB-21-2	107	122								
890-1018-43	SB-21-4	103	114								
890-1018-44	SB-21-10	104	112								
890-1018-46	SB-21-20	88	90								
890-1018-47	SB-32-2	112	115								
890-1018-48	SB-32-4	114	120								
890-1018-49	SB-32-10	106	113								
890-1018-50	SB-32-15	111	117								
LCS 880-5838/2-A	Lab Control Sample	96	108								
LCS 880-5882/2-A	Lab Control Sample	107	110								
LCS 880-5902/2-A	Lab Control Sample	93	94								
LCSD 880-5838/3-A	Lab Control Sample Dup	93	105								
LCSD 880-5882/3-A	Lab Control Sample Dup	102	105								
LCSD 880-5902/3-A	Lab Control Sample Dup	100	99								
MB 880-5838/1-A	Method Blank	84	99								
MB 880-5882/1-A	Method Blank	98	106								
MB 880-5902/1-A	Method Blank	94	104								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5758/5-A
Matrix: Solid
Analysis Batch: 5782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		07/28/21 13:50	07/29/21 13:57	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		07/28/21 13:50	07/29/21 13:57	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		07/28/21 13:50	07/29/21 13:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		07/28/21 13:50	07/29/21 13:57	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		07/28/21 13:50	07/29/21 13:57	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		07/28/21 13:50	07/29/21 13:57	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		07/28/21 13:50	07/29/21 13:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/28/21 13:50*	*07/29/21 13:57*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/28/21 13:50*	*07/29/21 13:57*	*1*

Lab Sample ID: LCS 880-5758/1-A
Matrix: Solid
Analysis Batch: 5782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5758

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09258		mg/Kg		93	70 - 130		
Toluene			0.100	0.09742		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.1016		mg/Kg		102	70 - 130		
m-Xylene & p-Xylene			0.200	0.2047		mg/Kg		102	70 - 130		
o-Xylene			0.100	0.09713		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-5758/2-A
Matrix: Solid
Analysis Batch: 5782

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5758

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08634		mg/Kg		86	70 - 130	7	35
Toluene			0.100	0.09449		mg/Kg		94	70 - 130	3	35
Ethylbenzene			0.100	0.1020		mg/Kg		102	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.2056		mg/Kg		103	70 - 130	0	35
o-Xylene			0.100	0.09873		mg/Kg		99	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: MB 880-5818/5-A
Matrix: Solid
Analysis Batch: 5858

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5818

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		07/30/21 08:30	07/30/21 13:13	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-5818/5-A
Matrix: Solid
Analysis Batch: 5858

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5818

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		07/30/21 08:30	07/30/21 13:13	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		07/30/21 08:30	07/30/21 13:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		07/30/21 08:30	07/30/21 13:13	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		07/30/21 08:30	07/30/21 13:13	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		07/30/21 08:30	07/30/21 13:13	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		07/30/21 08:30	07/30/21 13:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/30/21 08:30*	*07/30/21 13:13*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/30/21 08:30*	*07/30/21 13:13*	*1*

Lab Sample ID: MB 880-5821/5-A
Matrix: Solid
Analysis Batch: 5782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5821

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		07/29/21 13:38	07/30/21 01:31	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		07/29/21 13:38	07/30/21 01:31	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		07/29/21 13:38	07/30/21 01:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		07/29/21 13:38	07/30/21 01:31	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		07/29/21 13:38	07/30/21 01:31	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		07/29/21 13:38	07/30/21 01:31	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		07/29/21 13:38	07/30/21 01:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*07/29/21 13:38*	*07/30/21 01:31*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/29/21 13:38*	*07/30/21 01:31*	*1*

Lab Sample ID: LCS 880-5821/1-A
Matrix: Solid
Analysis Batch: 5782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5821

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08212		mg/Kg		82	70 - 130
Toluene	0.100	0.08951		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.09457		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1893		mg/Kg		95	70 - 130
o-Xylene	0.100	0.09254		mg/Kg		93	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-5821/2-A
Matrix: Solid
Analysis Batch: 5782

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5821

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.07051		mg/Kg		71	70 - 130	15	35
Toluene			0.100	0.08778		mg/Kg		88	70 - 130	2	35
Ethylbenzene			0.100	0.09850		mg/Kg		98	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2028		mg/Kg		101	70 - 130	7	35
o-Xylene			0.100	0.09766		mg/Kg		98	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: 890-1018-13 MS
Matrix: Solid
Analysis Batch: 5782

Client Sample ID: SB-27-2
Prep Type: Total/NA
Prep Batch: 5821

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U F1	0.0998	0.03056	F1	mg/Kg		31	70 - 130
Toluene	<0.00202	U F2 F1	0.0998	0.01093	F1	mg/Kg		11	70 - 130
Ethylbenzene	0.000600	J F2 F1	0.0998	0.1019		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	<0.00403	U F1	0.200	0.1388		mg/Kg		70	70 - 130
o-Xylene	0.000360	J F1	0.0998	0.05551	F1	mg/Kg		55	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 890-1018-13 MSD
Matrix: Solid
Analysis Batch: 5782

Client Sample ID: SB-27-2
Prep Type: Total/NA
Prep Batch: 5821

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.101	0.03543	F1	mg/Kg		35	70 - 130	15	35
Toluene	<0.00202	U F2 F1	0.101	0.05247	F2 F1	mg/Kg		52	70 - 130	131	35
Ethylbenzene	0.000600	J F2 F1	0.101	0.05881	F2 F1	mg/Kg		58	70 - 130	54	35
m-Xylene & p-Xylene	<0.00403	U F1	0.202	0.1131	F1	mg/Kg		56	70 - 130	20	35
o-Xylene	0.000360	J F1	0.101	0.05335	F1	mg/Kg		53	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: MB 880-5832/5-A
Matrix: Solid
Analysis Batch: 5858

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5832

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		07/30/21 09:30	07/31/21 00:22	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		07/30/21 09:30	07/31/21 00:22	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		07/30/21 09:30	07/31/21 00:22	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-5832/5-A
Matrix: Solid
Analysis Batch: 5858

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5832

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		07/30/21 09:30	07/31/21 00:22	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		07/30/21 09:30	07/31/21 00:22	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		07/30/21 09:30	07/31/21 00:22	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		07/30/21 09:30	07/31/21 00:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/30/21 09:30*	*07/31/21 00:22*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/30/21 09:30*	*07/31/21 00:22*	*1*

Lab Sample ID: LCS 880-5832/1-A
Matrix: Solid
Analysis Batch: 5858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5832

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09951		mg/Kg		100	70 - 130
Toluene	0.100	0.09197		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09141		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1839		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09422		mg/Kg		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-5832/2-A
Matrix: Solid
Analysis Batch: 5858

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5832

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08868		mg/Kg		89	70 - 130	12	35
Toluene	0.100	0.08298		mg/Kg		83	70 - 130	10	35
Ethylbenzene	0.100	0.08171		mg/Kg		82	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1647		mg/Kg		82	70 - 130	11	35
o-Xylene	0.100	0.08359		mg/Kg		84	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-1018-32 MSD
Matrix: Solid
Analysis Batch: 5858

Client Sample ID: SB-13-4
Prep Type: Total/NA
Prep Batch: 5832

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0994	0.08730		mg/Kg					
Toluene	<0.00202	U	0.0994	0.08221		mg/Kg					
Ethylbenzene	<0.00202	U	0.0994	0.08218		mg/Kg					
m-Xylene & p-Xylene	<0.00404	U	0.199	0.1658		mg/Kg					

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1018-32 MSD
Matrix: Solid
Analysis Batch: 5858

Client Sample ID: SB-13-4
Prep Type: Total/NA
Prep Batch: 5832

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	<0.00202	U	0.0994	0.08415		mg/Kg					

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 890-1018-32 MS
Matrix: Solid
Analysis Batch: 5858

Client Sample ID: SB-13-4
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-5838/1-A
Matrix: Solid
Analysis Batch: 5932

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5838

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/01/21 22:39	1
Diesel Range Organics (Over C10-C28)	15.41	J	50.0	15.0	mg/Kg		07/29/21 16:22	08/01/21 22:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/29/21 16:22	08/01/21 22:39	1
Total TPH	15.41	J	50.0	15.0	mg/Kg		07/29/21 16:22	08/01/21 22:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*07/29/21 16:22*	*08/01/21 22:39*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/29/21 16:22*	*08/01/21 22:39*	*1*

Lab Sample ID: LCS 880-5838/2-A
Matrix: Solid
Analysis Batch: 5932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5838

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	824.4		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	988.9		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-5838/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 5932 — **Prep Batch: 5838**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	881.4		mg/Kg		88	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	970.4		mg/Kg		97	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: 890-1018-1 MS — **Client Sample ID: SB-41-2**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 5932 — **Prep Batch: 5838**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	16.0	J	996	806.6		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	15.8	J B	996	928.5		mg/Kg		92	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: 890-1018-1 MSD — **Client Sample ID: SB-41-2**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 5932 — **Prep Batch: 5838**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	16.0	J	996	807.0		mg/Kg		79	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	15.8	J B	996	895.3		mg/Kg		88	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Lab Sample ID: MB 880-5882/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 5915 — **Prep Batch: 5882**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 12:00	1
Diesel Range Organics (Over C10-C28)	16.03	J	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 12:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 12:00	1
Total TPH	16.03	J	50.0	15.0	mg/Kg		07/30/21 13:47	07/31/21 12:00	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-5882/1-A
Matrix: Solid
Analysis Batch: 5915

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5882

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	07/30/21 13:47	07/31/21 12:00	1
o-Terphenyl	106		70 - 130	07/30/21 13:47	07/31/21 12:00	1

Lab Sample ID: LCS 880-5882/2-A
Matrix: Solid
Analysis Batch: 5915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5882

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	910.2		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1042		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: LCSD 880-5882/3-A
Matrix: Solid
Analysis Batch: 5915

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5882

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	926.4		mg/Kg		93	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	983.2		mg/Kg		98	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 890-1018-21 MS
Matrix: Solid
Analysis Batch: 5915

Client Sample ID: SB-17-2
Prep Type: Total/NA
Prep Batch: 5882

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	863.1		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	996	912.3		mg/Kg		92	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	87		70 - 130

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1018-21 MSD
Matrix: Solid
Analysis Batch: 5915

Client Sample ID: SB-17-2
Prep Type: Total/NA
Prep Batch: 5882

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	983.5		mg/Kg		99	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1075		mg/Kg		108	70 - 130	16	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Lab Sample ID: MB 880-5902/1-A
Matrix: Solid
Analysis Batch: 5917

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5902

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 12:00	1
Diesel Range Organics (Over C10-C28)	16.04	J	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 12:00	1
OII Range Organics (Over C28-C36)	17.41	J	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 12:00	1
Total TPH	33.45	J	50.0	15.0	mg/Kg		07/30/21 14:36	07/31/21 12:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*07/30/21 14:36*	*07/31/21 12:00*	*1*
o-Terphenyl	*104*		*70 - 130*	*07/30/21 14:36*	*07/31/21 12:00*	*1*

Lab Sample ID: LCS 880-5902/2-A
Matrix: Solid
Analysis Batch: 5917

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5902

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	802.8		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	1000	892.5		mg/Kg		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: LCSD 880-5902/3-A
Matrix: Solid
Analysis Batch: 5917

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5902

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	868.9		mg/Kg		87	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	973.1		mg/Kg		97	70 - 130	9	20

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-5902/3-A
Matrix: Solid
Analysis Batch: 5917

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5902

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5810/1-A
Matrix: Solid
Analysis Batch: 5879

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			07/30/21 18:27	1

Lab Sample ID: LCS 880-5810/2-A
Matrix: Solid
Analysis Batch: 5879

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	243.7		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-5810/3-A
Matrix: Solid
Analysis Batch: 5879

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	243.5		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-5802/1-A
Matrix: Solid
Analysis Batch: 5880

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			07/31/21 00:22	1

Lab Sample ID: LCS 880-5802/2-A
Matrix: Solid
Analysis Batch: 5880

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	247.0		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-5802/3-A
Matrix: Solid
Analysis Batch: 5880

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	247.5		mg/Kg		99	90 - 110	0	20

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1018-8 MS
Matrix: Solid
Analysis Batch: 5880

Client Sample ID: SB-42-15
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	60.3	F1	249	234.7	F1	mg/Kg		70	90 - 110

Lab Sample ID: 890-1018-8 MSD
Matrix: Solid
Analysis Batch: 5880

Client Sample ID: SB-42-15
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	60.3	F1	249	234.6	F1	mg/Kg		70	90 - 110	0	20

Lab Sample ID: 890-1018-18 MS
Matrix: Solid
Analysis Batch: 5880

Client Sample ID: SB-20-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	21.1		250	253.4		mg/Kg		93	90 - 110

Lab Sample ID: 890-1018-18 MSD
Matrix: Solid
Analysis Batch: 5880

Client Sample ID: SB-20-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	21.1		250	254.1		mg/Kg		93	90 - 110	0	20

Lab Sample ID: MB 880-5803/1-A
Matrix: Solid
Analysis Batch: 5881

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			07/31/21 03:31	1

Lab Sample ID: LCS 880-5803/2-A
Matrix: Solid
Analysis Batch: 5881

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	247.0		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-5803/3-A
Matrix: Solid
Analysis Batch: 5881

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	247.2		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-5864/1-A
Matrix: Solid
Analysis Batch: 5903

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			07/31/21 06:39	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-5864/2-A
Matrix: Solid
Analysis Batch: 5903

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	248.5		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-5864/3-A
Matrix: Solid
Analysis Batch: 5903

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	250.1		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 890-1018-36 MS
Matrix: Solid
Analysis Batch: 5903

Client Sample ID: SB-13-30
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	190	F1	248	376.6	F1	mg/Kg		76	90 - 110		

Lab Sample ID: 890-1018-36 MSD
Matrix: Solid
Analysis Batch: 5903

Client Sample ID: SB-13-30
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	190	F1	248	377.1	F1	mg/Kg		76	90 - 110	0	20

Lab Sample ID: MB 880-5865/1-A
Matrix: Solid
Analysis Batch: 5907

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			07/31/21 21:23	1

Lab Sample ID: LCS 880-5865/2-A
Matrix: Solid
Analysis Batch: 5907

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	256.5		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-5865/3-A
Matrix: Solid
Analysis Batch: 5907

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	257.0		mg/Kg		103	90 - 110	0	20

Lab Sample ID: MB 880-6087/1-A
Matrix: Solid
Analysis Batch: 6088

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/05/21 02:06	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-6087/2-A
Matrix: Solid
Analysis Batch: 6088

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	248.6		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-6087/3-A
Matrix: Solid
Analysis Batch: 6088

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	249.5		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-6109/1-A
Matrix: Solid
Analysis Batch: 6194

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/08/21 13:21	1

Lab Sample ID: LCS 880-6109/2-A
Matrix: Solid
Analysis Batch: 6194

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	265.8		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-6109/3-A
Matrix: Solid
Analysis Batch: 6194

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	266.6		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

GC VOA

Prep Batch: 5758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-1	SB-41-2	Total/NA	Solid	5035	
890-1018-2	SB-41-4	Total/NA	Solid	5035	
890-1018-3	SB-41-10	Total/NA	Solid	5035	
890-1018-4	SB-41-15	Total/NA	Solid	5035	
890-1018-5	SB-42-2	Total/NA	Solid	5035	
890-1018-6	SB-42-4	Total/NA	Solid	5035	
890-1018-7	SB-42-10	Total/NA	Solid	5035	
890-1018-8	SB-42-15	Total/NA	Solid	5035	
890-1018-9	SB-23-2	Total/NA	Solid	5035	
890-1018-10	SB-23-4	Total/NA	Solid	5035	
890-1018-11	SB-39-10	Total/NA	Solid	5035	
890-1018-12	SB-39-15	Total/NA	Solid	5035	
MB 880-5758/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5758/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5758/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 5782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-1	SB-41-2	Total/NA	Solid	8021B	5758
890-1018-2	SB-41-4	Total/NA	Solid	8021B	5758
890-1018-3	SB-41-10	Total/NA	Solid	8021B	5758
890-1018-4	SB-41-15	Total/NA	Solid	8021B	5758
890-1018-5	SB-42-2	Total/NA	Solid	8021B	5758
890-1018-6	SB-42-4	Total/NA	Solid	8021B	5758
890-1018-7	SB-42-10	Total/NA	Solid	8021B	5758
890-1018-8	SB-42-15	Total/NA	Solid	8021B	5758
890-1018-9	SB-23-2	Total/NA	Solid	8021B	5758
890-1018-10	SB-23-4	Total/NA	Solid	8021B	5758
890-1018-11	SB-39-10	Total/NA	Solid	8021B	5758
890-1018-12	SB-39-15	Total/NA	Solid	8021B	5758
890-1018-13	SB-27-2	Total/NA	Solid	8021B	5821
890-1018-14	SB-27-4	Total/NA	Solid	8021B	5821
890-1018-15	SB-27-10	Total/NA	Solid	8021B	5821
890-1018-16	SB-27-15	Total/NA	Solid	8021B	5821
890-1018-17	SB-20-2	Total/NA	Solid	8021B	5821
890-1018-18	SB-20-4	Total/NA	Solid	8021B	5821
890-1018-19	SB-20-10	Total/NA	Solid	8021B	5821
890-1018-20	SB-20-15	Total/NA	Solid	8021B	5821
890-1018-21	SB-17-2	Total/NA	Solid	8021B	5821
890-1018-22	SB-17-4	Total/NA	Solid	8021B	5821
890-1018-23	SB-17-10	Total/NA	Solid	8021B	5821
890-1018-24	SB-17-15	Total/NA	Solid	8021B	5821
890-1018-25	SB-13-2	Total/NA	Solid	8021B	5821
890-1018-27	SB-13-10	Total/NA	Solid	8021B	5821
890-1018-29	SB-39-2	Total/NA	Solid	8021B	5821
890-1018-30	SB-39-4	Total/NA	Solid	8021B	5821
890-1018-31	SB-23-10	Total/NA	Solid	8021B	5821
MB 880-5758/5-A	Method Blank	Total/NA	Solid	8021B	5758
MB 880-5821/5-A	Method Blank	Total/NA	Solid	8021B	5821
LCS 880-5758/1-A	Lab Control Sample	Total/NA	Solid	8021B	5758
LCS 880-5821/1-A	Lab Control Sample	Total/NA	Solid	8021B	5821

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

GC VOA (Continued)

Analysis Batch: 5782 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-5758/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5758
LCSD 880-5821/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5821
890-1018-13 MS	SB-27-2	Total/NA	Solid	8021B	5821
890-1018-13 MSD	SB-27-2	Total/NA	Solid	8021B	5821

Prep Batch: 5818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5818/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 5821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-13	SB-27-2	Total/NA	Solid	5035	
890-1018-14	SB-27-4	Total/NA	Solid	5035	
890-1018-15	SB-27-10	Total/NA	Solid	5035	
890-1018-16	SB-27-15	Total/NA	Solid	5035	
890-1018-17	SB-20-2	Total/NA	Solid	5035	
890-1018-18	SB-20-4	Total/NA	Solid	5035	
890-1018-19	SB-20-10	Total/NA	Solid	5035	
890-1018-20	SB-20-15	Total/NA	Solid	5035	
890-1018-21	SB-17-2	Total/NA	Solid	5035	
890-1018-22	SB-17-4	Total/NA	Solid	5035	
890-1018-23	SB-17-10	Total/NA	Solid	5035	
890-1018-24	SB-17-15	Total/NA	Solid	5035	
890-1018-25	SB-13-2	Total/NA	Solid	5035	
890-1018-27	SB-13-10	Total/NA	Solid	5035	
890-1018-29	SB-39-2	Total/NA	Solid	5035	
890-1018-30	SB-39-4	Total/NA	Solid	5035	
890-1018-31	SB-23-10	Total/NA	Solid	5035	
MB 880-5821/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5821/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5821/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1018-13 MS	SB-27-2	Total/NA	Solid	5035	
890-1018-13 MSD	SB-27-2	Total/NA	Solid	5035	

Prep Batch: 5832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-32	SB-13-4	Total/NA	Solid	5035	
890-1018-35	SB-13-18	Total/NA	Solid	5035	
890-1018-36	SB-13-30	Total/NA	Solid	5035	
890-1018-37	SB-40-2	Total/NA	Solid	5035	
890-1018-38	SB-40-4	Total/NA	Solid	5035	
890-1018-39	SB-40-10	Total/NA	Solid	5035	
890-1018-40	SB-40-15	Total/NA	Solid	5035	
890-1018-42	SB-21-2	Total/NA	Solid	5035	
890-1018-43	SB-21-4	Total/NA	Solid	5035	
890-1018-44	SB-21-10	Total/NA	Solid	5035	
890-1018-46	SB-21-20	Total/NA	Solid	5035	
890-1018-47	SB-32-2	Total/NA	Solid	5035	
890-1018-48	SB-32-4	Total/NA	Solid	5035	
890-1018-49	SB-32-10	Total/NA	Solid	5035	
890-1018-50	SB-32-15	Total/NA	Solid	5035	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

GC VOA (Continued)

Prep Batch: 5832 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5832/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5832/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5832/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1018-32 MSD	SB-13-4	Total/NA	Solid	5035	

Analysis Batch: 5858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-32	SB-13-4	Total/NA	Solid	8021B	5832
890-1018-35	SB-13-18	Total/NA	Solid	8021B	5832
890-1018-36	SB-13-30	Total/NA	Solid	8021B	5832
890-1018-37	SB-40-2	Total/NA	Solid	8021B	5832
890-1018-38	SB-40-4	Total/NA	Solid	8021B	5832
890-1018-39	SB-40-10	Total/NA	Solid	8021B	5832
890-1018-40	SB-40-15	Total/NA	Solid	8021B	5832
890-1018-42	SB-21-2	Total/NA	Solid	8021B	5832
890-1018-43	SB-21-4	Total/NA	Solid	8021B	5832
890-1018-44	SB-21-10	Total/NA	Solid	8021B	5832
890-1018-46	SB-21-20	Total/NA	Solid	8021B	5832
890-1018-47	SB-32-2	Total/NA	Solid	8021B	5832
890-1018-48	SB-32-4	Total/NA	Solid	8021B	5832
890-1018-49	SB-32-10	Total/NA	Solid	8021B	5832
890-1018-50	SB-32-15	Total/NA	Solid	8021B	5832
MB 880-5818/5-A	Method Blank	Total/NA	Solid	8021B	5818
MB 880-5832/5-A	Method Blank	Total/NA	Solid	8021B	5832
LCS 880-5832/1-A	Lab Control Sample	Total/NA	Solid	8021B	5832
LCSD 880-5832/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5832
890-1018-32 MS	SB-13-4	Total/NA	Solid	8021B	
890-1018-32 MSD	SB-13-4	Total/NA	Solid	8021B	5832

GC Semi VOA

Prep Batch: 5838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-1	SB-41-2	Total/NA	Solid	8015NM Prep	
890-1018-2	SB-41-4	Total/NA	Solid	8015NM Prep	
890-1018-3	SB-41-10	Total/NA	Solid	8015NM Prep	
890-1018-4	SB-41-15	Total/NA	Solid	8015NM Prep	
890-1018-5	SB-42-2	Total/NA	Solid	8015NM Prep	
890-1018-6	SB-42-4	Total/NA	Solid	8015NM Prep	
890-1018-7	SB-42-10	Total/NA	Solid	8015NM Prep	
890-1018-8	SB-42-15	Total/NA	Solid	8015NM Prep	
890-1018-9	SB-23-2	Total/NA	Solid	8015NM Prep	
890-1018-10	SB-23-4	Total/NA	Solid	8015NM Prep	
890-1018-11	SB-39-10	Total/NA	Solid	8015NM Prep	
890-1018-12	SB-39-15	Total/NA	Solid	8015NM Prep	
890-1018-13	SB-27-2	Total/NA	Solid	8015NM Prep	
890-1018-14	SB-27-4	Total/NA	Solid	8015NM Prep	
890-1018-15	SB-27-10	Total/NA	Solid	8015NM Prep	
890-1018-16	SB-27-15	Total/NA	Solid	8015NM Prep	
890-1018-17	SB-20-2	Total/NA	Solid	8015NM Prep	
890-1018-18	SB-20-4	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

GC Semi VOA (Continued)

Prep Batch: 5838 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-19	SB-20-10	Total/NA	Solid	8015NM Prep	
890-1018-20	SB-20-15	Total/NA	Solid	8015NM Prep	
MB 880-5838/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5838/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5838/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1018-1 MS	SB-41-2	Total/NA	Solid	8015NM Prep	
890-1018-1 MSD	SB-41-2	Total/NA	Solid	8015NM Prep	

Prep Batch: 5882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-21	SB-17-2	Total/NA	Solid	8015NM Prep	
890-1018-22	SB-17-4	Total/NA	Solid	8015NM Prep	
890-1018-23	SB-17-10	Total/NA	Solid	8015NM Prep	
890-1018-24	SB-17-15	Total/NA	Solid	8015NM Prep	
890-1018-25	SB-13-2	Total/NA	Solid	8015NM Prep	
890-1018-27	SB-13-10	Total/NA	Solid	8015NM Prep	
890-1018-29	SB-39-2	Total/NA	Solid	8015NM Prep	
890-1018-30	SB-39-4	Total/NA	Solid	8015NM Prep	
890-1018-31	SB-23-10	Total/NA	Solid	8015NM Prep	
890-1018-32	SB-13-4	Total/NA	Solid	8015NM Prep	
890-1018-35	SB-13-18	Total/NA	Solid	8015NM Prep	
890-1018-36	SB-13-30	Total/NA	Solid	8015NM Prep	
890-1018-37	SB-40-2	Total/NA	Solid	8015NM Prep	
890-1018-38	SB-40-4	Total/NA	Solid	8015NM Prep	
890-1018-39	SB-40-10	Total/NA	Solid	8015NM Prep	
890-1018-40	SB-40-15	Total/NA	Solid	8015NM Prep	
890-1018-42	SB-21-2	Total/NA	Solid	8015NM Prep	
890-1018-43	SB-21-4	Total/NA	Solid	8015NM Prep	
MB 880-5882/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5882/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5882/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1018-21 MS	SB-17-2	Total/NA	Solid	8015NM Prep	
890-1018-21 MSD	SB-17-2	Total/NA	Solid	8015NM Prep	

Prep Batch: 5902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-44	SB-21-10	Total/NA	Solid	8015NM Prep	
890-1018-47	SB-32-2	Total/NA	Solid	8015NM Prep	
890-1018-48	SB-32-4	Total/NA	Solid	8015NM Prep	
890-1018-49	SB-32-10	Total/NA	Solid	8015NM Prep	
890-1018-50	SB-32-15	Total/NA	Solid	8015NM Prep	
MB 880-5902/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5902/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5902/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-21	SB-17-2	Total/NA	Solid	8015B NM	5882
890-1018-22	SB-17-4	Total/NA	Solid	8015B NM	5882
890-1018-23	SB-17-10	Total/NA	Solid	8015B NM	5882
890-1018-24	SB-17-15	Total/NA	Solid	8015B NM	5882

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

GC Semi VOA (Continued)

Analysis Batch: 5915 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-25	SB-13-2	Total/NA	Solid	8015B NM	5882
890-1018-27	SB-13-10	Total/NA	Solid	8015B NM	5882
890-1018-29	SB-39-2	Total/NA	Solid	8015B NM	5882
890-1018-30	SB-39-4	Total/NA	Solid	8015B NM	5882
890-1018-31	SB-23-10	Total/NA	Solid	8015B NM	5882
890-1018-32	SB-13-4	Total/NA	Solid	8015B NM	5882
890-1018-35	SB-13-18	Total/NA	Solid	8015B NM	5882
890-1018-36	SB-13-30	Total/NA	Solid	8015B NM	5882
890-1018-37	SB-40-2	Total/NA	Solid	8015B NM	5882
890-1018-38	SB-40-4	Total/NA	Solid	8015B NM	5882
890-1018-39	SB-40-10	Total/NA	Solid	8015B NM	5882
890-1018-40	SB-40-15	Total/NA	Solid	8015B NM	5882
890-1018-42	SB-21-2	Total/NA	Solid	8015B NM	5882
890-1018-43	SB-21-4	Total/NA	Solid	8015B NM	5882
MB 880-5882/1-A	Method Blank	Total/NA	Solid	8015B NM	5882
LCS 880-5882/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5882
LCSD 880-5882/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5882
890-1018-21 MS	SB-17-2	Total/NA	Solid	8015B NM	5882
890-1018-21 MSD	SB-17-2	Total/NA	Solid	8015B NM	5882

Analysis Batch: 5917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-44	SB-21-10	Total/NA	Solid	8015B NM	5902
890-1018-47	SB-32-2	Total/NA	Solid	8015B NM	5902
890-1018-48	SB-32-4	Total/NA	Solid	8015B NM	5902
890-1018-49	SB-32-10	Total/NA	Solid	8015B NM	5902
890-1018-50	SB-32-15	Total/NA	Solid	8015B NM	5902
MB 880-5902/1-A	Method Blank	Total/NA	Solid	8015B NM	5902
LCS 880-5902/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5902
LCSD 880-5902/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5902

Analysis Batch: 5932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-1	SB-41-2	Total/NA	Solid	8015B NM	5838
890-1018-2	SB-41-4	Total/NA	Solid	8015B NM	5838
890-1018-3	SB-41-10	Total/NA	Solid	8015B NM	5838
890-1018-4	SB-41-15	Total/NA	Solid	8015B NM	5838
890-1018-5	SB-42-2	Total/NA	Solid	8015B NM	5838
890-1018-6	SB-42-4	Total/NA	Solid	8015B NM	5838
890-1018-7	SB-42-10	Total/NA	Solid	8015B NM	5838
890-1018-8	SB-42-15	Total/NA	Solid	8015B NM	5838
890-1018-9	SB-23-2	Total/NA	Solid	8015B NM	5838
890-1018-10	SB-23-4	Total/NA	Solid	8015B NM	5838
890-1018-11	SB-39-10	Total/NA	Solid	8015B NM	5838
890-1018-12	SB-39-15	Total/NA	Solid	8015B NM	5838
890-1018-13	SB-27-2	Total/NA	Solid	8015B NM	5838
890-1018-14	SB-27-4	Total/NA	Solid	8015B NM	5838
890-1018-15	SB-27-10	Total/NA	Solid	8015B NM	5838
890-1018-16	SB-27-15	Total/NA	Solid	8015B NM	5838
890-1018-17	SB-20-2	Total/NA	Solid	8015B NM	5838
890-1018-18	SB-20-4	Total/NA	Solid	8015B NM	5838

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

GC Semi VOA (Continued)

Analysis Batch: 5932 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-19	SB-20-10	Total/NA	Solid	8015B NM	5838
890-1018-20	SB-20-15	Total/NA	Solid	8015B NM	5838
MB 880-5838/1-A	Method Blank	Total/NA	Solid	8015B NM	5838
LCS 880-5838/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5838
LCSD 880-5838/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5838
890-1018-1 MS	SB-41-2	Total/NA	Solid	8015B NM	5838
890-1018-1 MSD	SB-41-2	Total/NA	Solid	8015B NM	5838

Analysis Batch: 6001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-46	SB-21-20	Total/NA	Solid	8015B NM	6026

Prep Batch: 6026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-46	SB-21-20	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 5802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-8	SB-42-15	Soluble	Solid	DI Leach	
890-1018-9	SB-23-2	Soluble	Solid	DI Leach	
890-1018-10	SB-23-4	Soluble	Solid	DI Leach	
890-1018-11	SB-39-10	Soluble	Solid	DI Leach	
890-1018-12	SB-39-15	Soluble	Solid	DI Leach	
890-1018-13	SB-27-2	Soluble	Solid	DI Leach	
890-1018-14	SB-27-4	Soluble	Solid	DI Leach	
890-1018-15	SB-27-10	Soluble	Solid	DI Leach	
890-1018-16	SB-27-15	Soluble	Solid	DI Leach	
890-1018-17	SB-20-2	Soluble	Solid	DI Leach	
890-1018-18	SB-20-4	Soluble	Solid	DI Leach	
890-1018-19	SB-20-10	Soluble	Solid	DI Leach	
890-1018-20	SB-20-15	Soluble	Solid	DI Leach	
890-1018-21	SB-17-2	Soluble	Solid	DI Leach	
890-1018-22	SB-17-4	Soluble	Solid	DI Leach	
890-1018-23	SB-17-10	Soluble	Solid	DI Leach	
890-1018-24	SB-17-15	Soluble	Solid	DI Leach	
890-1018-25	SB-13-2	Soluble	Solid	DI Leach	
890-1018-27	SB-13-10	Soluble	Solid	DI Leach	
MB 880-5802/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5802/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5802/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1018-8 MS	SB-42-15	Soluble	Solid	DI Leach	
890-1018-8 MSD	SB-42-15	Soluble	Solid	DI Leach	
890-1018-18 MS	SB-20-4	Soluble	Solid	DI Leach	
890-1018-18 MSD	SB-20-4	Soluble	Solid	DI Leach	

Leach Batch: 5803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-29	SB-39-2	Soluble	Solid	DI Leach	
890-1018-30	SB-39-4	Soluble	Solid	DI Leach	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

HPLC/IC (Continued)

Leach Batch: 5803 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-31	SB-23-10	Soluble	Solid	DI Leach	
MB 880-5803/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5803/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5803/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 5810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-1	SB-41-2	Soluble	Solid	DI Leach	
890-1018-2	SB-41-4	Soluble	Solid	DI Leach	
890-1018-3	SB-41-10	Soluble	Solid	DI Leach	
890-1018-4	SB-41-15	Soluble	Solid	DI Leach	
890-1018-5	SB-42-2	Soluble	Solid	DI Leach	
890-1018-6	SB-42-4	Soluble	Solid	DI Leach	
890-1018-7	SB-42-10	Soluble	Solid	DI Leach	
MB 880-5810/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5810/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5810/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 5864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-32	SB-13-4	Soluble	Solid	DI Leach	
890-1018-35	SB-13-18	Soluble	Solid	DI Leach	
890-1018-36	SB-13-30	Soluble	Solid	DI Leach	
890-1018-37	SB-40-2	Soluble	Solid	DI Leach	
890-1018-38	SB-40-4	Soluble	Solid	DI Leach	
890-1018-39	SB-40-10	Soluble	Solid	DI Leach	
890-1018-40	SB-40-15	Soluble	Solid	DI Leach	
890-1018-42	SB-21-2	Soluble	Solid	DI Leach	
890-1018-43	SB-21-4	Soluble	Solid	DI Leach	
890-1018-44	SB-21-10	Soluble	Solid	DI Leach	
MB 880-5864/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5864/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5864/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1018-36 MS	SB-13-30	Soluble	Solid	DI Leach	
890-1018-36 MSD	SB-13-30	Soluble	Solid	DI Leach	

Leach Batch: 5865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-47	SB-32-2	Soluble	Solid	DI Leach	
890-1018-48	SB-32-4	Soluble	Solid	DI Leach	
890-1018-49	SB-32-10	Soluble	Solid	DI Leach	
890-1018-50	SB-32-15	Soluble	Solid	DI Leach	
MB 880-5865/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5865/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5865/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 5879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-1	SB-41-2	Soluble	Solid	300.0	5810
890-1018-2	SB-41-4	Soluble	Solid	300.0	5810
890-1018-3	SB-41-10	Soluble	Solid	300.0	5810

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

HPLC/IC (Continued)

Analysis Batch: 5879 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-4	SB-41-15	Soluble	Solid	300.0	5810
890-1018-5	SB-42-2	Soluble	Solid	300.0	5810
890-1018-6	SB-42-4	Soluble	Solid	300.0	5810
890-1018-7	SB-42-10	Soluble	Solid	300.0	5810
MB 880-5810/1-A	Method Blank	Soluble	Solid	300.0	5810
LCS 880-5810/2-A	Lab Control Sample	Soluble	Solid	300.0	5810
LCSD 880-5810/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5810

Analysis Batch: 5880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-8	SB-42-15	Soluble	Solid	300.0	5802
890-1018-9	SB-23-2	Soluble	Solid	300.0	5802
890-1018-10	SB-23-4	Soluble	Solid	300.0	5802
890-1018-11	SB-39-10	Soluble	Solid	300.0	5802
890-1018-12	SB-39-15	Soluble	Solid	300.0	5802
890-1018-13	SB-27-2	Soluble	Solid	300.0	5802
890-1018-14	SB-27-4	Soluble	Solid	300.0	5802
890-1018-15	SB-27-10	Soluble	Solid	300.0	5802
890-1018-16	SB-27-15	Soluble	Solid	300.0	5802
890-1018-17	SB-20-2	Soluble	Solid	300.0	5802
890-1018-18	SB-20-4	Soluble	Solid	300.0	5802
890-1018-19	SB-20-10	Soluble	Solid	300.0	5802
890-1018-20	SB-20-15	Soluble	Solid	300.0	5802
890-1018-21	SB-17-2	Soluble	Solid	300.0	5802
890-1018-22	SB-17-4	Soluble	Solid	300.0	5802
890-1018-23	SB-17-10	Soluble	Solid	300.0	5802
890-1018-24	SB-17-15	Soluble	Solid	300.0	5802
890-1018-25	SB-13-2	Soluble	Solid	300.0	5802
890-1018-27	SB-13-10	Soluble	Solid	300.0	5802
MB 880-5802/1-A	Method Blank	Soluble	Solid	300.0	5802
LCS 880-5802/2-A	Lab Control Sample	Soluble	Solid	300.0	5802
LCSD 880-5802/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5802
890-1018-8 MS	SB-42-15	Soluble	Solid	300.0	5802
890-1018-8 MSD	SB-42-15	Soluble	Solid	300.0	5802
890-1018-18 MS	SB-20-4	Soluble	Solid	300.0	5802
890-1018-18 MSD	SB-20-4	Soluble	Solid	300.0	5802

Analysis Batch: 5881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-29	SB-39-2	Soluble	Solid	300.0	5803
890-1018-30	SB-39-4	Soluble	Solid	300.0	5803
890-1018-31	SB-23-10	Soluble	Solid	300.0	5803
MB 880-5803/1-A	Method Blank	Soluble	Solid	300.0	5803
LCS 880-5803/2-A	Lab Control Sample	Soluble	Solid	300.0	5803
LCSD 880-5803/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5803

Analysis Batch: 5903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-32	SB-13-4	Soluble	Solid	300.0	5864
890-1018-35	SB-13-18	Soluble	Solid	300.0	5864
890-1018-36	SB-13-30	Soluble	Solid	300.0	5864

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

HPLC/IC (Continued)

Analysis Batch: 5903 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-37	SB-40-2	Soluble	Solid	300.0	5864
890-1018-38	SB-40-4	Soluble	Solid	300.0	5864
890-1018-39	SB-40-10	Soluble	Solid	300.0	5864
890-1018-40	SB-40-15	Soluble	Solid	300.0	5864
890-1018-42	SB-21-2	Soluble	Solid	300.0	5864
890-1018-43	SB-21-4	Soluble	Solid	300.0	5864
890-1018-44	SB-21-10	Soluble	Solid	300.0	5864
MB 880-5864/1-A	Method Blank	Soluble	Solid	300.0	5864
LCS 880-5864/2-A	Lab Control Sample	Soluble	Solid	300.0	5864
LCSD 880-5864/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5864
890-1018-36 MS	SB-13-30	Soluble	Solid	300.0	5864
890-1018-36 MSD	SB-13-30	Soluble	Solid	300.0	5864

Analysis Batch: 5907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-47	SB-32-2	Soluble	Solid	300.0	5865
890-1018-48	SB-32-4	Soluble	Solid	300.0	5865
890-1018-49	SB-32-10	Soluble	Solid	300.0	5865
890-1018-50	SB-32-15	Soluble	Solid	300.0	5865
MB 880-5865/1-A	Method Blank	Soluble	Solid	300.0	5865
LCS 880-5865/2-A	Lab Control Sample	Soluble	Solid	300.0	5865
LCSD 880-5865/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5865

Leach Batch: 6087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-46	SB-21-20	Soluble	Solid	DI Leach	
MB 880-6087/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6087/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6087/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 6088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1018-46	SB-21-20	Soluble	Solid	300.0	6087
MB 880-6087/1-A	Method Blank	Soluble	Solid	300.0	6087
LCS 880-6087/2-A	Lab Control Sample	Soluble	Solid	300.0	6087
LCSD 880-6087/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6087

Leach Batch: 6109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6109/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6109/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6109/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 6194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6109/1-A	Method Blank	Soluble	Solid	300.0	6109
LCS 880-6109/2-A	Lab Control Sample	Soluble	Solid	300.0	6109
LCSD 880-6109/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6109

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-41-2
Date Collected: 07/27/21 12:35
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 17:09	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/01/21 23:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5810	07/29/21 12:57	CH	XEN MID
Soluble	Analysis	300.0		1			5879	07/30/21 20:37	CH	XEN MID

Client Sample ID: SB-41-4
Date Collected: 07/27/21 12:40
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 17:29	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 00:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5810	07/29/21 12:57	CH	XEN MID
Soluble	Analysis	300.0		1			5879	07/30/21 20:42	CH	XEN MID

Client Sample ID: SB-41-10
Date Collected: 07/27/21 12:45
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 19:19	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 01:04	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5810	07/29/21 12:57	CH	XEN MID
Soluble	Analysis	300.0		1			5879	07/30/21 20:47	CH	XEN MID

Client Sample ID: SB-41-15
Date Collected: 07/27/21 12:50
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 19:40	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 01:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5810	07/29/21 12:57	CH	XEN MID
Soluble	Analysis	300.0		1			5879	07/30/21 20:53	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-42-2
Date Collected: 07/27/21 14:15
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 20:00	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 01:46	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5810	07/29/21 12:57	CH	XEN MID
Soluble	Analysis	300.0		1			5879	07/30/21 20:58	CH	XEN MID

Client Sample ID: SB-42-4
Date Collected: 07/27/21 14:20
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 20:21	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 02:07	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5810	07/29/21 12:57	CH	XEN MID
Soluble	Analysis	300.0		1			5879	07/30/21 21:03	CH	XEN MID

Client Sample ID: SB-42-10
Date Collected: 07/27/21 14:25
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 20:41	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 02:27	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5810	07/29/21 12:57	CH	XEN MID
Soluble	Analysis	300.0		1			5879	07/30/21 21:09	CH	XEN MID

Client Sample ID: SB-42-15
Date Collected: 07/27/21 14:30
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 21:01	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 02:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 00:38	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-23-2
Date Collected: 07/27/21 15:00
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 21:22	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 03:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 00:55	CH	XEN MID

Client Sample ID: SB-23-4
Date Collected: 07/27/21 15:05
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 21:42	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 03:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 01:00	CH	XEN MID

Client Sample ID: SB-39-10
Date Collected: 07/26/21 13:20
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 22:02	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 04:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 01:05	CH	XEN MID

Client Sample ID: SB-39-15
Date Collected: 07/26/21 13:25
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5758	07/29/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/29/21 22:23	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 04:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 01:11	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-27-2
Date Collected: 07/26/21 09:30
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 02:00	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 04:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 01:27	CH	XEN MID

Client Sample ID: SB-27-4
Date Collected: 07/26/21 16:30
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 02:20	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 05:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 01:32	CH	XEN MID

Client Sample ID: SB-27-10
Date Collected: 07/26/21 16:35
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 02:41	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 05:35	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 01:38	CH	XEN MID

Client Sample ID: SB-27-15
Date Collected: 07/26/21 16:40
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 03:01	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 05:56	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 01:43	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-20-2
Date Collected: 07/27/21 09:00
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 03:22	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 06:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 01:48	CH	XEN MID

Client Sample ID: SB-20-4
Date Collected: 07/27/21 09:05
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 03:42	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 06:38	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 01:54	CH	XEN MID

Client Sample ID: SB-20-10
Date Collected: 07/27/21 09:10
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 04:02	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 06:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 02:10	CH	XEN MID

Client Sample ID: SB-20-15
Date Collected: 07/27/21 09:15
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 04:23	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5838	07/29/21 16:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/02/21 07:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		5			5880	07/31/21 02:15	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-17-2
Date Collected: 07/26/21 09:20
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 04:43	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 13:03	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 02:32	CH	XEN MID

Client Sample ID: SB-17-4
Date Collected: 07/26/21 11:30
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 05:04	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 14:07	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 02:37	CH	XEN MID

Client Sample ID: SB-17-10
Date Collected: 07/26/21 11:35
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 06:53	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 14:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 02:42	CH	XEN MID

Client Sample ID: SB-17-15
Date Collected: 07/26/21 11:40
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 07:13	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 14:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 02:48	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-13-2
Date Collected: 07/25/21 09:00
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 07:34	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 15:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 02:53	CH	XEN MID

Client Sample ID: SB-13-10
Date Collected: 07/25/21 09:10
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 08:14	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 15:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	5802	07/29/21 12:32	CH	XEN MID
Soluble	Analysis	300.0		1			5880	07/31/21 03:04	CH	XEN MID

Client Sample ID: SB-39-2
Date Collected: 07/26/21 09:25
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 08:55	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 16:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5803	07/29/21 12:36	CH	XEN MID
Soluble	Analysis	300.0		1			5881	07/31/21 06:02	CH	XEN MID

Client Sample ID: SB-39-4
Date Collected: 07/26/21 13:15
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 09:16	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 16:34	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5803	07/29/21 12:36	CH	XEN MID
Soluble	Analysis	300.0		1			5881	07/31/21 06:07	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-23-10
Date Collected: 07/27/21 15:10
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5821	07/29/21 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5782	07/30/21 09:36	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 16:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5803	07/29/21 12:36	CH	XEN MID
Soluble	Analysis	300.0		1			5881	07/31/21 06:12	CH	XEN MID

Client Sample ID: SB-13-4
Date Collected: 07/25/21 09:05
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 00:44	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 17:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5864	07/30/21 09:57	CH	XEN MID
Soluble	Analysis	300.0		1			5903	07/31/21 07:49	CH	XEN MID

Client Sample ID: SB-13-18
Date Collected: 07/25/21 09:25
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 01:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 18:20	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5864	07/30/21 09:57	CH	XEN MID
Soluble	Analysis	300.0		1			5903	07/31/21 08:06	CH	XEN MID

Client Sample ID: SB-13-30
Date Collected: 07/25/21 09:30
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 02:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 18:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5864	07/30/21 09:57	CH	XEN MID
Soluble	Analysis	300.0		1			5903	07/31/21 08:11	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-40-2
Date Collected: 07/26/21 16:50
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 02:26	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 19:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5864	07/30/21 09:57	CH	XEN MID
Soluble	Analysis	300.0		1			5903	07/31/21 08:27	CH	XEN MID

Client Sample ID: SB-40-4
Date Collected: 07/26/21 16:55
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 02:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 19:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5864	07/30/21 09:57	CH	XEN MID
Soluble	Analysis	300.0		1			5903	07/31/21 08:33	CH	XEN MID

Client Sample ID: SB-40-10
Date Collected: 07/26/21 17:00
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 03:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 19:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5864	07/30/21 09:57	CH	XEN MID
Soluble	Analysis	300.0		1			5903	07/31/21 08:49	CH	XEN MID

Client Sample ID: SB-40-15
Date Collected: 07/26/21 17:05
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 03:27	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 20:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5864	07/30/21 09:57	CH	XEN MID
Soluble	Analysis	300.0		1			5903	07/31/21 08:54	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-21-2
Date Collected: 07/27/21 10:30
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 05:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 20:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5864	07/30/21 09:57	CH	XEN MID
Soluble	Analysis	300.0		1			5903	07/31/21 08:59	CH	XEN MID

Client Sample ID: SB-21-4
Date Collected: 07/27/21 10:35
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 05:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5882	07/30/21 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 20:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5864	07/30/21 09:57	CH	XEN MID
Soluble	Analysis	300.0		1			5903	07/31/21 09:05	CH	XEN MID

Client Sample ID: SB-21-10
Date Collected: 07/27/21 10:40
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 05:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5902	07/30/21 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	07/31/21 16:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5864	07/30/21 09:57	CH	XEN MID
Soluble	Analysis	300.0		10			5903	07/31/21 09:10	CH	XEN MID

Client Sample ID: SB-21-20
Date Collected: 07/27/21 10:50
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-46
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 06:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6026	08/03/21 15:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6001	08/04/21 00:40	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6087	08/04/21 16:00	CH	XEN MID
Soluble	Analysis	300.0		5			6088	08/05/21 04:37	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Client Sample ID: SB-32-2
Date Collected: 07/27/21 15:20
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 06:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5902	07/30/21 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	07/31/21 16:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5865	07/30/21 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			5907	07/31/21 23:48	CH	XEN MID

Client Sample ID: SB-32-4
Date Collected: 07/27/21 15:25
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-48
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 07:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5902	07/30/21 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	07/31/21 16:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5865	07/30/21 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			5907	07/31/21 23:54	CH	XEN MID

Client Sample ID: SB-32-10
Date Collected: 07/27/21 15:30
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-49
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 07:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5902	07/30/21 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	07/31/21 17:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5865	07/30/21 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			5907	07/31/21 23:59	CH	XEN MID

Client Sample ID: SB-32-15
Date Collected: 07/27/21 15:35
Date Received: 07/28/21 11:45

Lab Sample ID: 890-1018-50
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5832	07/30/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 07:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5902	07/30/21 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	07/31/21 17:59	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5865	07/30/21 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			5907	08/01/21 00:05	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: GHD Services Inc. Job ID: 890-1018-1
Project/Site: Flamenco #1 SDG: 11220747

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1018-1
SDG: 11220747

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1018-1	SB-41-2	Solid	07/27/21 12:35	07/28/21 11:45
890-1018-2	SB-41-4	Solid	07/27/21 12:40	07/28/21 11:45
890-1018-3	SB-41-10	Solid	07/27/21 12:45	07/28/21 11:45
890-1018-4	SB-41-15	Solid	07/27/21 12:50	07/28/21 11:45
890-1018-5	SB-42-2	Solid	07/27/21 14:15	07/28/21 11:45
890-1018-6	SB-42-4	Solid	07/27/21 14:20	07/28/21 11:45
890-1018-7	SB-42-10	Solid	07/27/21 14:25	07/28/21 11:45
890-1018-8	SB-42-15	Solid	07/27/21 14:30	07/28/21 11:45
890-1018-9	SB-23-2	Solid	07/27/21 15:00	07/28/21 11:45
890-1018-10	SB-23-4	Solid	07/27/21 15:05	07/28/21 11:45
890-1018-11	SB-39-10	Solid	07/26/21 13:20	07/28/21 11:45
890-1018-12	SB-39-15	Solid	07/26/21 13:25	07/28/21 11:45
890-1018-13	SB-27-2	Solid	07/26/21 09:30	07/28/21 11:45
890-1018-14	SB-27-4	Solid	07/26/21 16:30	07/28/21 11:45
890-1018-15	SB-27-10	Solid	07/26/21 16:35	07/28/21 11:45
890-1018-16	SB-27-15	Solid	07/26/21 16:40	07/28/21 11:45
890-1018-17	SB-20-2	Solid	07/27/21 09:00	07/28/21 11:45
890-1018-18	SB-20-4	Solid	07/27/21 09:05	07/28/21 11:45
890-1018-19	SB-20-10	Solid	07/27/21 09:10	07/28/21 11:45
890-1018-20	SB-20-15	Solid	07/27/21 09:15	07/28/21 11:45
890-1018-21	SB-17-2	Solid	07/26/21 09:20	07/28/21 11:45
890-1018-22	SB-17-4	Solid	07/26/21 11:30	07/28/21 11:45
890-1018-23	SB-17-10	Solid	07/26/21 11:35	07/28/21 11:45
890-1018-24	SB-17-15	Solid	07/26/21 11:40	07/28/21 11:45
890-1018-25	SB-13-2	Solid	07/25/21 09:00	07/28/21 11:45
890-1018-27	SB-13-10	Solid	07/25/21 09:10	07/28/21 11:45
890-1018-29	SB-39-2	Solid	07/26/21 09:25	07/28/21 11:45
890-1018-30	SB-39-4	Solid	07/26/21 13:15	07/28/21 11:45
890-1018-31	SB-23-10	Solid	07/27/21 15:10	07/28/21 11:45
890-1018-32	SB-13-4	Solid	07/25/21 09:05	07/28/21 11:45
890-1018-35	SB-13-18	Solid	07/25/21 09:25	07/28/21 11:45
890-1018-36	SB-13-30	Solid	07/25/21 09:30	07/28/21 11:45
890-1018-37	SB-40-2	Solid	07/26/21 16:50	07/28/21 11:45
890-1018-38	SB-40-4	Solid	07/26/21 16:55	07/28/21 11:45
890-1018-39	SB-40-10	Solid	07/26/21 17:00	07/28/21 11:45
890-1018-40	SB-40-15	Solid	07/26/21 17:05	07/28/21 11:45
890-1018-42	SB-21-2	Solid	07/27/21 10:30	07/28/21 11:45
890-1018-43	SB-21-4	Solid	07/27/21 10:35	07/28/21 11:45
890-1018-44	SB-21-10	Solid	07/27/21 10:40	07/28/21 11:45
890-1018-46	SB-21-20	Solid	07/27/21 10:50	07/28/21 11:45
890-1018-47	SB-32-2	Solid	07/27/21 15:20	07/28/21 11:45
890-1018-48	SB-32-4	Solid	07/27/21 15:25	07/28/21 11:45
890-1018-49	SB-32-10	Solid	07/27/21 15:30	07/28/21 11:45
890-1018-50	SB-32-15	Solid	07/27/21 15:35	07/28/21 11:45

Page 395 of 713

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 5

Project Manager:	Becky Haskell	Bill to: (if different)	Jaren Kennedy
Company Name:	GHD	Company Name:	EOG
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	432 256 7917	Email:	Becky.Haskell@ghd.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flamenco #1	Turn Around	
Project Number:	11220741-1	☐Routine ☐Rush	
Project Location:		Due Date:	3 Day
Sampler's Name:	JV	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	TVM_007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.2	
Total Containers:		Corrected Temperature:	1.0	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlor. Ide 300.0	TPH TX1005 (GRO, DRO)	8015 Ext 2113	ANALYSIS REQUEST	Sample Comments
SB-13-2'	S	7-26-21	0900									
SB-13-4'		7-26-21	0905									
SB-13-6'		7-26-21	0910									
SB-13-10'		7-26-21	0915									
SB-13-15'		7-26-21	0920									
SB-13-18'		7-26-21	0925									
SB-13-30'		7-26-21	0930									
SB-17-2'		7-26-21	1125									
SB-17-4'		7-26-21	1130									
SB-17-10'		7-26-21	1135									

890-1018 Chain of Custody

Part 2

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		7.29.21 1138	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

8/25/2021 (Rev. 1)

Page 74 of 87

Page 396 of 713

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 5

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:	Pg1	Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐Routine ☐Rush	
Project Location:		Due Date:	3 Day
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Pg1

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride 300.0	TPH 8015 (GRO, DRO, ORO)	BTEX 8021B	Sample Comments
SB-17-15'	S	7-26-21	1140		G	1					
SB-39-2'		7-26-21	1310								
SB-39-4'		7-26-21	1315								
SB-39-10'		7-26-21	1320								
SB-39-15'		7-26-21	1325								
SB-27-2'		7-26-21	1625								
SB-27-4'		7-26-21	1630								
SB-27-10'		7-26-21	1635								
SB-27-15'		7-26-21	1640								
SB-20-2'	V	7-27-21	0900		V	V		V	V	V	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		7-29-21 1138	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev: 2020.2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

8/25/2021 (Rev. 1)

Page 75 of 87

Page 397 of 713

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 3 of 5

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐ Routine ☐ Rush	
Project Location:		Due Date: 3 Day	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No		Thermometer ID:	
Cooler Custody Seals:	Yes No N/A		Correction Factor:	
Sample Custody Seals:	Yes No N/A		Temperature Reading:	
Total Containers:			Corrected Temperature:	

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: (Chlorides 300.0)	(TPH 8015 (MRO, DRO, GRO))	(BTEX 8021B)	Sample Comments
SB 26-4'	S	7-27-21	0905		G	1					
SB-26-10'		7-27-21	0911								
SB-26-15'		7-27-21	0915								
SB-41-2'		7-27-21	1235								
SB-41-4'		7-27-21	1240								
SB-41-10'		7-27-21	1245								
SB-41-15'		7-27-21	1250								
SB-42-2'		7-27-21	1415								
SB-42-4'		7-27-21	1420								
SB-42-10'	↓	7-27-21	1425		↓	↓		↓	↓	↓	

Total 200.7 / 6010 **200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		7-29-21 1138	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

8/25/2021 (Rev. 1)

Page 76 of 87

Page 398 of 713

8/25/2021 (Rev. 1)

Page 77 of 87

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 4 of 5

Project Manager:	Rg 1	Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:	Rg	☐Routine ☐Rush	
Project Location:		Due Date: 3 Day	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	Rg 1	
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride 300.0	TPH 8015 MOD GRO, DRO	BTEX 8021B	Sample Comments
SB-42-15'	S	7.27.21	1435								
SB-23-2'		7.27.21	1500								
SB-23-4'		7.27.21	1505								
SB-23-10'		7.27.21	1510								
SB-46-2'		7.26.21	1450								
SB-46-4'		7.26.21	1455								
SB-46-10'		7.26.21	1500								
SB-46-15'		7.26.21	1705								
SB-46-20'		7.26.21	1710								H2L P! SB-46 20'
SB-21-2'	✓	7.26.21	1030					X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		7.29.21 1138	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 399 of 713

8/25/2021 (Rev. 1)

Page 78 of 87

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 5 of 5

Project Manager:		Bill to: (if different)	
Company Name:	Rgl	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐Routine ☐Rush	
Project Location:	Rgl	Due Date:	3 Day
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	Rgl	
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2S0_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlor. Cl 300.0	TPH 8015 (GRO, DRO)	BTEX 8021B	Sample Comments
SB-21-4'	S	7-27-21	1035		G	1		X	X	X	
SB-21-10'		7-27-21	1040					X	X	X	
SB-21-15'		7-27-21	1045					X	X	X	
SB-21-20'		7-27-21	1050					—			HOLD! SB-21-25'
SB-32-2'		7-27-21	1520					X	X	X	
SB-32-4'		7-27-21	1525					X	X	X	
SB-32-10'		7-27-21	1530					X	X	X	
SB-32-15'		7-27-21	1535					X	X	X	
SB-32-25'		7-27-21	1540					—	—		HOLD! SB-32-25'

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Clue Cut	7-29-21 1138	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Simmons, Debbie	Carrier Tracking No(s):	COC No: 890-322 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: debbie simmons@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 4
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-1018-1
Address: 1211 W Florida Ave, ,	Due Date Requested: 8/3/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: Flamenco #1	Project #: 88000221			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH - NM	8021B/5035FP_Calc BTEX (bulk jar/FP prep)	300_ORGFM_28D/DI_LEACH Chloride	Total Number of containers	Special Instructions/Note
			Preservation Code:								
SB-41-2 (890-1018-1)	7/27/21	12 35 Mountain		Solid			X	X	X	1	
SB-41-4 (890-1018-2)	7/27/21	12 40 Mountain		Solid			X	X	X	1	
SB-41-10 (890-1018-3)	7/27/21	12 45 Mountain		Solid			X	X	X	1	
SB-41-15 (890-1018-4)	7/27/21	12 50 Mountain		Solid			X	X	X	1	
SB-42-2 (890-1018-5)	7/27/21	14 15 Mountain		Solid			X	X	X	1	
SB-42-4 (890-1018-6)	7/27/21	14 20 Mountain		Solid			X	X	X	1	
SB-42-10 (890-1018-7)	7/27/21	14 25 Mountain		Solid			X	X	X	1	
SB-42-15 (890-1018-8)	7/27/21	14 30 Mountain		Solid			X	X	X	1	
SB-23-2 (890-1018-9)	7/27/21	15 00 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II III, IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by: Eve Cruz 7-28-21	Date/Time:	Company	Received by:	Date/Time: 7-29-21 10:30am	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Page 400 of 713
Received by OCD: 2/28/2022 3:03:33 PM
8/25/2021 (Rev. 1)
Page 79 of 87
Released to Imaging: 5/2/2022 3:32:26 PM

Page 401 of 713

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax. 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Simmons, Debbie	Carrier Tracking No(s):	COC No: 890-322 3
Client Contact: Shipping/Receiving	Phone	E-Mail: debbie simmons@eurofinset.com	State of Origin: New Mexico	Page: Page 3 of 4
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-1018-1
Address: 1211 W Florida Ave,	Due Date Requested: 8/3/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701	PO #:			
Phone: 432-704-5440(Tel)	WO #:			
Email:				
Project Name: Flamenco #1	Project #: 88000221			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M Hexane
B - NaOH	N None
C Zn Acetate	O AsNaO2
D Nitric Acid	P Na2O4S
E NaHSO4	Q - Na2SO3
F MeOH	R - Na2S2O3
G Amchlor	S H2SO4
H Ascorbic Acid	T TSP Dodecahydrate
I - Ice	U Acetone
J DI Water	V MCAA
K EDTA	W pH 4-5
L EDA	Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH - NM	8021B/5035FP_Calc BTEX (bulk jar/FP prep)	300_ORGFM_28D/DI_LEACH Chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
SB-20-10 (890-1018-19)	7/27/21	09 10 Mountain		Solid			X	X	X	1	
SB-20-15 (890-1018-20)	7/27/21	09 15 Mountain		Solid			X	X	X	1	
SB-17-2 (890-1018-21)	7/28/21	09 20 Mountain		Solid			X	X	X	1	
SB-17-4 (890-1018-22)	7/26/21	11 30 Mountain		Solid			X	X	X	1	
SB-17-10 (890-1018-23)	7/26/21	11 35 Mountain		Solid			X	X	X	1	
SB-17-15 (890-1018-24)	7/26/21	11 40 Mountain		Solid			X	X	X	1	
SB-13-2 (890-1018-25)	7/28/21	09 00 Mountain		Solid			X	X	X	1	
SB-13-4 (890-1018-26)	7/28/21	09 05 Mountain		Solid			X	X	X	1	
SB-13-10 (890-1018-27)	7/28/21	09 10 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II, III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by: Chase Corp 7-28-21	Date/Time	Company	Received by:	Date/Time: 7-29-21 10:30am	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Received by OCD: 2/28/2022 3:03:33 PM
Page 80 of 87
8/25/2021 (Rev. 1)
Released to Imaging: 5/2/2022 3:32:26 PM

Page 402 of 713

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Simmons, Debbie	Carrier Tracking No(s).	COC No: 890-326 1
Client Contact: Shipping/Receiving	Phone	E-Mail: debbie.simmons@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 3
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-1018-1
Address: 1211 W Florida Ave,	Due Date Requested: 8/2/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: Flamenco #1	Project #: 88000221			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH - NM	8021B/5035FP_Calc BTEX (bulk jar/FP prep)	300_ORGFM_28D/DI_LEACH Chloride	Total Number of containers	Special Instructions/Note.
Preservation Code:											
SB-13-4 (890-1018-32)	7/26/21	09 05 Mountain		Solid			X	X	X	1	
SB-13-6 (890-1018-33)	7/25/21	09 10 Mountain		Solid			X	X	X	1	
SB-13-10 (890-1018-34)	7/25/21	09 15 Mountain		Solid			X	X	X	1	
SB-13-18 (890-1018-35)	7/25/21	09 25 Mountain		Solid			X	X	X	1	
SB-13-30 (890-1018-36)	7/25/21	09 30 Mountain		Solid			X	X	X	1	
SB-40-2 (890-1018-37)	7/26/21	16 50 Mountain		Solid			X	X	X	1	
SB-40-4 (890-1018-38)	7/26/21	16 55 Mountain		Solid			X	X	X	1	
SB-40-10 (890-1018-39)	7/26/21	17 00 Mountain		Solid			X	X	X	1	
SB-40-15 (890-1018-40)	7/26/21	17 05 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III, IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Abe Crafton 7.29.21			[illegible]AMER	7/30 1030	
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Received by OCD: 2/28/2022 3:03:33 PM
Page 81 of 87
8/25/2021 (Rev. 1)
Released to Imaging: 5/2/2022 3:32:26 PM

Page 403 of 713

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Simmons Debbie	Carrier Tracking No(s)	COC No: 890-326 2
Client Contact: Shipping/Receiving	Phone	E-Mail: debbie.simmons@eurofinset.com	State of Origin: New Mexico	Page: Page 2 of 3
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-1018-1
Address: 1211 W Florida Ave,	Due Date Requested: 8/2/2021			
City: Midland	TAT Requested (days):			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: Flamenco #1	Project #: 88000221			
Site	SSOW#:			

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH - NM	8021B/5035FP_Calc BTEX (bulk jar/FP prep)	300_ORGFM_28D/DI_LEACH Chloride	Total Number of containers	Special Instructions/Note
				Preservation Code:							
SB-40-20 (890-1018-41)	7/26/21	17 10 Mountain		Solid			X	X	X	1	
SB-21-2 (890-1018-42)	7/27/21	10 30 Mountain		Solid			X	X	X	1	
SB-21-4 (890-1018-43)	7/27/21	10 35 Mountain		Solid			X	X	X	1	
SB-21-10 (890-1018-44)	7/27/21	10 40 Mountain		Solid			X	X	X	1	
SB-21-15 (890-1018-45)	7/27/21	10 45 Mountain		Solid			X	X	X	1	
SB-21-20 (890-1018-46)	7/27/21	10 50 Mountain		Solid			X	X	X	1	
SB-32-2 (890-1018-47)	7/27/21	15 20 Mountain		Solid			X	X	X	1	
SB-32-4 (890-1018-48)	7/27/21	15 25 Mountain		Solid			X	X	X	1	
SB-32-10 (890-1018-49)	7/27/21	15 30 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Clue Cof 7.29.21			DKramer	7/30/21 1030	
Relinquished by	Date/Time:	Company	Received by	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Received by OCD: 2/28/2022 3:03:33 PM
Page 82 of 87
8/25/2021 (Rev. 1)
Released to Imaging: 5/2/2022 3:32:26 PM

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Simmons Debbie	Carrier Tracking No(s):	COC No: 890-326 3
Client Contact: Shipping/Receiving	Phone:	E-Mail: debbie simmons@eurofinset.com	State of Origin: New Mexico	Page: Page 3 of 3
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-1018-1
Address: 1211 W Florida Ave,	Due Date Requested: 8/2/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: Flamenco #1	Project #: 88000221			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H - Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V - MCAA, W pH 4-5, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH - NM	8021B/5035FP_Calc BTEX (bulk jar/FP prep)	300_ORGFM_28D/DI_LEACH Chloride	Total Number of containers	Special Instructions/Note
			Preservation Code:								
SB-32-15 (890-1018-50)	7/27/21	15 35 Mountain		Solid			X	X	X	1	
SB-32-20 (890-1018-51)	7/27/21	15 40 Mountain		Solid			X	X	X	1	

Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Chloe Cate 7.29.21					
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Page 404 of 713
Received by OCD: 2/28/2022 3:03:33 PM
8/25/2021 (Rev. 1)
Page 83 of 87
Released to Imaging: 5/2/2022 3:32:26 PM

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1018-1
SDG Number: 11220747

Login Number: 1018
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1018-1
SDG Number: 11220747

Login Number: 1018
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 07/29/21 10:37 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1018-1
SDG Number: 11220747

Login Number: 1018
List Number: 3
Creator: Lowe, Katie

List Source: Eurofins Xenco, Midland
List Creation: 07/30/21 11:28 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1065-1
Laboratory Sample Delivery Group: 11220747
Client Project/Site: Flamenco #1

For:
GHD Services Inc.
2135 South Loop 250 West
Midland, Texas 79703

Attn: Becky Haskell

Authorized for release by:
8/11/2021 3:17:04 PM

Debbie Simmons, Project Manager
(281)240-4200
debbie.simmons@eurofinset.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: GHD Services Inc.
Project/Site: Flamenco #1

Laboratory Job ID: 890-1065-1
SDG: 11220747

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 11
QC Sample Results 12
QC Association Summary 16
Lab Chronicle 19
Certification Summary 22
Method Summary 23
Sample Summary 24
Chain of Custody 25
Receipt Checklists 27

Definitions/Glossary

Client: GHD Services Inc. Job ID: 890-1065-1
Project/Site: Flamenco #1 SDG: 11220747

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Job ID: 890-1065-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1065-1

Receipt
The samples were received on 8/6/2021 11:44 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: MW-10-105 (890-1065-4), MW-11-80 (890-1065-7), (890-1064-A-8-B MS) and (890-1064-A-8-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Client Sample ID: MW-10-4

Date Collected: 08/03/21 10:25
Date Received: 08/06/21 11:44

Lab Sample ID: 890-1065-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		08/09/21 10:01	08/09/21 16:57	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		08/09/21 10:01	08/09/21 16:57	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		08/09/21 10:01	08/09/21 16:57	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		08/09/21 10:01	08/09/21 16:57	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/09/21 10:01	08/09/21 16:57	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		08/09/21 10:01	08/09/21 16:57	1
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg		08/09/21 10:01	08/09/21 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*08/09/21 10:01*	*08/09/21 16:57*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*08/09/21 10:01*	*08/09/21 16:57*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 08:52	08/10/21 11:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0	15.0	mg/Kg		08/10/21 08:52	08/10/21 11:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 08:52	08/10/21 11:35	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 08:52	08/10/21 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*08/10/21 08:52*	*08/10/21 11:35*	*1*
o-Terphenyl	*104*		*70 - 130*	*08/10/21 08:52*	*08/10/21 11:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.43**	**J**	4.97	0.853	mg/Kg			08/10/21 17:48	1

Client Sample ID: MW-10-40

Date Collected: 08/03/21 11:10
Date Received: 08/06/21 11:44

Lab Sample ID: 890-1065-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/09/21 10:01	08/09/21 17:23	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/09/21 10:01	08/09/21 17:23	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/09/21 10:01	08/09/21 17:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/09/21 10:01	08/09/21 17:23	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/09/21 10:01	08/09/21 17:23	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/09/21 10:01	08/09/21 17:23	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/09/21 10:01	08/09/21 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*08/09/21 10:01*	*08/09/21 17:23*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/09/21 10:01*	*08/09/21 17:23*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 08:52	08/10/21 15:11	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1065-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: MW-10-40 Lab Sample ID: 890-1065-2

Date Collected: 08/03/21 11:10 **Matrix: Solid**
Date Received: 08/06/21 11:44

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 08:52	08/10/21 15:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 08:52	08/10/21 15:11	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 08:52	08/10/21 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*08/10/21 08:52*	*08/10/21 15:11*	*1*
o-Terphenyl	*97*		*70 - 130*	*08/10/21 08:52*	*08/10/21 15:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**77.8**		4.98	0.855	mg/Kg			08/10/21 17:53	1

Client Sample ID: MW-10-80 Lab Sample ID: 890-1065-3

Date Collected: 08/04/21 15:10 **Matrix: Solid**
Date Received: 08/06/21 11:44

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/09/21 10:01	08/09/21 17:49	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/09/21 10:01	08/09/21 17:49	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/09/21 10:01	08/09/21 17:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/09/21 10:01	08/09/21 17:49	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/09/21 10:01	08/09/21 17:49	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/09/21 10:01	08/09/21 17:49	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/09/21 10:01	08/09/21 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*08/09/21 10:01*	*08/09/21 17:49*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*08/09/21 10:01*	*08/09/21 17:49*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**24.3**	**J**	49.9	15.0	mg/Kg		08/09/21 09:15	08/09/21 18:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/09/21 09:15	08/09/21 18:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/09/21 09:15	08/09/21 18:20	1
Total TPH	**24.3**	**J**	49.9	15.0	mg/Kg		08/09/21 09:15	08/09/21 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*08/09/21 09:15*	*08/09/21 18:20*	*1*
o-Terphenyl	*117*		*70 - 130*	*08/09/21 09:15*	*08/09/21 18:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.14**	**J**	5.04	0.865	mg/Kg			08/10/21 18:10	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1065-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: MW-10-105 Lab Sample ID: 890-1065-4

Date Collected: 08/04/21 16:30 **Matrix: Solid**
Date Received: 08/06/21 11:44

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/09/21 10:01	08/09/21 18:14	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/09/21 10:01	08/09/21 18:14	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/09/21 10:01	08/09/21 18:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/09/21 10:01	08/09/21 18:14	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/09/21 10:01	08/09/21 18:14	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/09/21 10:01	08/09/21 18:14	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/09/21 10:01	08/09/21 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*149*	*S1+*	*70 - 130*	*08/09/21 10:01*	*08/09/21 18:14*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*08/09/21 10:01*	*08/09/21 18:14*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**22.8**	**J**	49.8	14.9	mg/Kg		08/09/21 09:15	08/09/21 18:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/09/21 09:15	08/09/21 18:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/09/21 09:15	08/09/21 18:41	1
Total TPH	**22.8**	**J**	49.8	14.9	mg/Kg		08/09/21 09:15	08/09/21 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*08/09/21 09:15*	*08/09/21 18:41*	*1*
o-Terphenyl	*116*		*70 - 130*	*08/09/21 09:15*	*08/09/21 18:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.25**	**J**	5.01	0.860	mg/Kg			08/10/21 18:15	1

Client Sample ID: MW-11-4 Lab Sample ID: 890-1065-5

Date Collected: 08/05/21 09:15 **Matrix: Solid**
Date Received: 08/06/21 11:44

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		08/09/21 10:01	08/09/21 18:40	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		08/09/21 10:01	08/09/21 18:40	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/09/21 10:01	08/09/21 18:40	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/09/21 10:01	08/09/21 18:40	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/09/21 10:01	08/09/21 18:40	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/09/21 10:01	08/09/21 18:40	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		08/09/21 10:01	08/09/21 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*08/09/21 10:01*	*08/09/21 18:40*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*08/09/21 10:01*	*08/09/21 18:40*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**16.6**	**J**	49.9	15.0	mg/Kg		08/09/21 09:15	08/09/21 19:01	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1065-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: MW-11-4 Lab Sample ID: 890-1065-5

Date Collected: 08/05/21 09:15 **Matrix: Solid**
Date Received: 08/06/21 11:44

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/09/21 09:15	08/09/21 19:01	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/09/21 09:15	08/09/21 19:01	1
Total TPH	**16.6**	**J**	49.9	15.0	mg/Kg		08/09/21 09:15	08/09/21 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*08/09/21 09:15*	*08/09/21 19:01*	*1*
o-Terphenyl	*129*		*70 - 130*	*08/09/21 09:15*	*08/09/21 19:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98	0.855	mg/Kg			08/10/21 18:21	1

Client Sample ID: MW-11-30 Lab Sample ID: 890-1065-6

Date Collected: 08/05/21 09:50 **Matrix: Solid**
Date Received: 08/06/21 11:44

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		08/09/21 10:01	08/09/21 19:06	1
Toluene	**0.000519**	**J**	0.00202	0.000461	mg/Kg		08/09/21 10:01	08/09/21 19:06	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		08/09/21 10:01	08/09/21 19:06	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		08/09/21 10:01	08/09/21 19:06	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/09/21 10:01	08/09/21 19:06	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		08/09/21 10:01	08/09/21 19:06	1
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg		08/09/21 10:01	08/09/21 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*08/09/21 10:01*	*08/09/21 19:06*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*08/09/21 10:01*	*08/09/21 19:06*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 19:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 19:22	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 19:22	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*08/09/21 09:15*	*08/09/21 19:22*	*1*
o-Terphenyl	*117*		*70 - 130*	*08/09/21 09:15*	*08/09/21 19:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**109**		4.95	0.850	mg/Kg			08/10/21 18:26	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1065-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: MW-11-80 Lab Sample ID: 890-1065-7

Date Collected: 08/05/21 13:40 **Matrix: Solid**
Date Received: 08/06/21 11:44

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		08/09/21 10:01	08/09/21 20:48	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		08/09/21 10:01	08/09/21 20:48	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		08/09/21 10:01	08/09/21 20:48	1
m-Xylene & p-Xylene	**0.00337**	**J**	0.00401	0.00101	mg/Kg		08/09/21 10:01	08/09/21 20:48	1
o-Xylene	**0.00148**	**J**	0.00200	0.000345	mg/Kg		08/09/21 10:01	08/09/21 20:48	1
Xylenes, Total	**0.00485**		0.00401	0.00101	mg/Kg		08/09/21 10:01	08/09/21 20:48	1
Total BTEX	**0.00485**		0.00401	0.00101	mg/Kg		08/09/21 10:01	08/09/21 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*142*	*S1+*	*70 - 130*	*08/09/21 10:01*	*08/09/21 20:48*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*08/09/21 10:01*	*08/09/21 20:48*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**21.4**	**J**	49.8	14.9	mg/Kg		08/09/21 09:15	08/09/21 19:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/09/21 09:15	08/09/21 19:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/09/21 09:15	08/09/21 19:42	1
Total TPH	**21.4**	**J**	49.8	14.9	mg/Kg		08/09/21 09:15	08/09/21 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*08/09/21 09:15*	*08/09/21 19:42*	*1*
o-Terphenyl	*103*		*70 - 130*	*08/09/21 09:15*	*08/09/21 19:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.29**	**J**	4.97	0.853	mg/Kg			08/10/21 18:32	1

Client Sample ID: MW-11-100 Lab Sample ID: 890-1065-8

Date Collected: 08/05/21 15:15 **Matrix: Solid**
Date Received: 08/06/21 11:44

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/09/21 10:01	08/09/21 21:14	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/09/21 10:01	08/09/21 21:14	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/09/21 10:01	08/09/21 21:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/09/21 10:01	08/09/21 21:14	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/09/21 10:01	08/09/21 21:14	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/09/21 10:01	08/09/21 21:14	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/09/21 10:01	08/09/21 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*08/09/21 10:01*	*08/09/21 21:14*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*08/09/21 10:01*	*08/09/21 21:14*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**30.7**	**J**	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 20:03	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1065-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: MW-11-100 Lab Sample ID: 890-1065-8

Date Collected: 08/05/21 15:15 **Matrix: Solid**
Date Received: 08/06/21 11:44

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 20:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 20:03	1
Total TPH	**30.7**	**J**	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*08/09/21 09:15*	*08/09/21 20:03*	*1*
o-Terphenyl	*105*		*70 - 130*	*08/09/21 09:15*	*08/09/21 20:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.71**		4.99	0.857	mg/Kg			08/10/21 18:37	1

Client Sample ID: MW-11-105 Lab Sample ID: 890-1065-9

Date Collected: 08/05/21 15:50 **Matrix: Solid**
Date Received: 08/06/21 11:44

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/09/21 10:01	08/09/21 21:40	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/09/21 10:01	08/09/21 21:40	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/09/21 10:01	08/09/21 21:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/09/21 10:01	08/09/21 21:40	1
o-Xylene	**0.000381**	**J**	0.00199	0.000342	mg/Kg		08/09/21 10:01	08/09/21 21:40	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/09/21 10:01	08/09/21 21:40	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/09/21 10:01	08/09/21 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*08/09/21 10:01*	*08/09/21 21:40*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*08/09/21 10:01*	*08/09/21 21:40*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 20:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 20:23	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 20:23	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*08/09/21 09:15*	*08/09/21 20:23*	*1*
o-Terphenyl	*109*		*70 - 130*	*08/09/21 09:15*	*08/09/21 20:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.16**		5.00	0.858	mg/Kg			08/10/21 18:43	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1065-1	MW-10-4	124	111
890-1065-2	MW-10-40	112	109
890-1065-3	MW-10-80	126	107
890-1065-4	MW-10-105	149 S1+	78
890-1065-5	MW-11-4	125	111
890-1065-6	MW-11-30	120	112
890-1065-7	MW-11-80	142 S1+	87
890-1065-8	MW-11-100	100	90
890-1065-9	MW-11-105	129	74
LCS 880-6242/1-A	Lab Control Sample	119	106
LCSD 880-6242/2-A	Lab Control Sample Dup	111	111
MB 880-6242/5-A	Method Blank	73	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1065-1	MW-10-4	92	104
890-1065-1 MS	MW-10-4	90	87
890-1065-1 MSD	MW-10-4	85	85
890-1065-2	MW-10-40	88	97
890-1065-3	MW-10-80	112	117
890-1065-4	MW-10-105	105	116
890-1065-5	MW-11-4	115	129
890-1065-6	MW-11-30	103	117
890-1065-7	MW-11-80	95	103
890-1065-8	MW-11-100	96	105
890-1065-9	MW-11-105	98	109
LCS 880-6236/2-A	Lab Control Sample	106	103
LCS 880-6283/2-A	Lab Control Sample	85	92
LCSD 880-6236/3-A	Lab Control Sample Dup	95	93
LCSD 880-6283/3-A	Lab Control Sample Dup	88	95
MB 880-6236/1-A	Method Blank	103	112
MB 880-6283/1-A	Method Blank	92	106

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6242/5-A
Matrix: Solid
Analysis Batch: 6247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6242

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/09/21 10:01	08/09/21 14:46	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/09/21 10:01	08/09/21 14:46	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/09/21 10:01	08/09/21 14:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/09/21 10:01	08/09/21 14:46	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/09/21 10:01	08/09/21 14:46	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/09/21 10:01	08/09/21 14:46	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/09/21 10:01	08/09/21 14:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*08/09/21 10:01*	*08/09/21 14:46*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/09/21 10:01*	*08/09/21 14:46*	*1*

Lab Sample ID: LCS 880-6242/1-A
Matrix: Solid
Analysis Batch: 6247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6242

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1052		mg/Kg		105	70 - 130		
Toluene			0.100	0.1093		mg/Kg		109	70 - 130		
Ethylbenzene			0.100	0.1053		mg/Kg		105	70 - 130		
m-Xylene & p-Xylene			0.200	0.2054		mg/Kg		103	70 - 130		
o-Xylene			0.100	0.1028		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-6242/2-A
Matrix: Solid
Analysis Batch: 6247

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6242

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1065		mg/Kg		106	70 - 130	1	35
Toluene			0.100	0.1084		mg/Kg		108	70 - 130	1	35
Ethylbenzene			0.100	0.1046		mg/Kg		105	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2042		mg/Kg		102	70 - 130	1	35
o-Xylene			0.100	0.1020		mg/Kg		102	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-6236/1-A
Matrix: Solid
Analysis Batch: 6234

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6236

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 11:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 11:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 11:44	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/09/21 09:15	08/09/21 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*08/09/21 09:15*	*08/09/21 11:44*	*1*
o-Terphenyl	*112*		*70 - 130*	*08/09/21 09:15*	*08/09/21 11:44*	*1*

Lab Sample ID: LCS 880-6236/2-A
Matrix: Solid
Analysis Batch: 6234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6236

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1014		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1047		mg/Kg		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*103*		*70 - 130*

Lab Sample ID: LCSD 880-6236/3-A
Matrix: Solid
Analysis Batch: 6234

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6236

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	929.7		mg/Kg		93	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	943.9		mg/Kg		94	70 - 130	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

Lab Sample ID: MB 880-6283/1-A
Matrix: Solid
Analysis Batch: 6274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6283

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 08:52	08/10/21 10:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 08:52	08/10/21 10:26	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 08:52	08/10/21 10:26	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 08:52	08/10/21 10:26	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	08/10/21 08:52	08/10/21 10:26	1
o-Terphenyl	106		70 - 130	08/10/21 08:52	08/10/21 10:26	1

Lab Sample ID: LCS 880-6283/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 6274 — **Prep Batch: 6283**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	867.7		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1043		mg/Kg		104	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-6283/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 6274 — **Prep Batch: 6283**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	875.1		mg/Kg		88	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1085		mg/Kg		109	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 890-1065-1 MS — **Client Sample ID: MW-10-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 6274 — **Prep Batch: 6283**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	1083		mg/Kg		109	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	995	1364	F1	mg/Kg		137	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: 890-1065-1 MSD — **Client Sample ID: MW-10-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 6274 — **Prep Batch: 6283**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1063		mg/Kg		106	70 - 130	2	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1065-1 MSD
Matrix: Solid
Analysis Batch: 6274

Client Sample ID: MW-10-4
Prep Type: Total/NA
Prep Batch: 6283

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	1346	F1	mg/Kg		135	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6290/1-A
Matrix: Solid
Analysis Batch: 6291

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/10/21 15:58	1

Lab Sample ID: LCS 880-6290/2-A
Matrix: Solid
Analysis Batch: 6291

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	263.1		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-6290/3-A
Matrix: Solid
Analysis Batch: 6291

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	265.2		mg/Kg		106	90 - 110	1	20

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

GC VOA

Prep Batch: 6242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1065-1	MW-10-4	Total/NA	Solid	5035	
890-1065-2	MW-10-40	Total/NA	Solid	5035	
890-1065-3	MW-10-80	Total/NA	Solid	5035	
890-1065-4	MW-10-105	Total/NA	Solid	5035	
890-1065-5	MW-11-4	Total/NA	Solid	5035	
890-1065-6	MW-11-30	Total/NA	Solid	5035	
890-1065-7	MW-11-80	Total/NA	Solid	5035	
890-1065-8	MW-11-100	Total/NA	Solid	5035	
890-1065-9	MW-11-105	Total/NA	Solid	5035	
MB 880-6242/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6242/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6242/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 6247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1065-1	MW-10-4	Total/NA	Solid	8021B	6242
890-1065-2	MW-10-40	Total/NA	Solid	8021B	6242
890-1065-3	MW-10-80	Total/NA	Solid	8021B	6242
890-1065-4	MW-10-105	Total/NA	Solid	8021B	6242
890-1065-5	MW-11-4	Total/NA	Solid	8021B	6242
890-1065-6	MW-11-30	Total/NA	Solid	8021B	6242
890-1065-7	MW-11-80	Total/NA	Solid	8021B	6242
890-1065-8	MW-11-100	Total/NA	Solid	8021B	6242
890-1065-9	MW-11-105	Total/NA	Solid	8021B	6242
MB 880-6242/5-A	Method Blank	Total/NA	Solid	8021B	6242
LCS 880-6242/1-A	Lab Control Sample	Total/NA	Solid	8021B	6242
LCSD 880-6242/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6242

GC Semi VOA

Analysis Batch: 6234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1065-3	MW-10-80	Total/NA	Solid	8015B NM	6236
890-1065-4	MW-10-105	Total/NA	Solid	8015B NM	6236
890-1065-5	MW-11-4	Total/NA	Solid	8015B NM	6236
890-1065-6	MW-11-30	Total/NA	Solid	8015B NM	6236
890-1065-7	MW-11-80	Total/NA	Solid	8015B NM	6236
890-1065-8	MW-11-100	Total/NA	Solid	8015B NM	6236
890-1065-9	MW-11-105	Total/NA	Solid	8015B NM	6236
MB 880-6236/1-A	Method Blank	Total/NA	Solid	8015B NM	6236
LCS 880-6236/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6236
LCSD 880-6236/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6236

Prep Batch: 6236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1065-3	MW-10-80	Total/NA	Solid	8015NM Prep	
890-1065-4	MW-10-105	Total/NA	Solid	8015NM Prep	
890-1065-5	MW-11-4	Total/NA	Solid	8015NM Prep	
890-1065-6	MW-11-30	Total/NA	Solid	8015NM Prep	
890-1065-7	MW-11-80	Total/NA	Solid	8015NM Prep	
890-1065-8	MW-11-100	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

GC Semi VOA (Continued)

Prep Batch: 6236 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1065-9	MW-11-105	Total/NA	Solid	8015NM Prep	
MB 880-6236/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6236/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6236/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1065-1	MW-10-4	Total/NA	Solid	8015B NM	6283
890-1065-2	MW-10-40	Total/NA	Solid	8015B NM	6283
MB 880-6283/1-A	Method Blank	Total/NA	Solid	8015B NM	6283
LCS 880-6283/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6283
LCSD 880-6283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6283
890-1065-1 MS	MW-10-4	Total/NA	Solid	8015B NM	6283
890-1065-1 MSD	MW-10-4	Total/NA	Solid	8015B NM	6283

Prep Batch: 6283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1065-1	MW-10-4	Total/NA	Solid	8015NM Prep	
890-1065-2	MW-10-40	Total/NA	Solid	8015NM Prep	
MB 880-6283/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6283/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1065-1 MS	MW-10-4	Total/NA	Solid	8015NM Prep	
890-1065-1 MSD	MW-10-4	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 6290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1065-1	MW-10-4	Soluble	Solid	DI Leach	
890-1065-2	MW-10-40	Soluble	Solid	DI Leach	
890-1065-3	MW-10-80	Soluble	Solid	DI Leach	
890-1065-4	MW-10-105	Soluble	Solid	DI Leach	
890-1065-5	MW-11-4	Soluble	Solid	DI Leach	
890-1065-6	MW-11-30	Soluble	Solid	DI Leach	
890-1065-7	MW-11-80	Soluble	Solid	DI Leach	
890-1065-8	MW-11-100	Soluble	Solid	DI Leach	
890-1065-9	MW-11-105	Soluble	Solid	DI Leach	
MB 880-6290/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6290/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6290/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 6291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1065-1	MW-10-4	Soluble	Solid	300.0	6290
890-1065-2	MW-10-40	Soluble	Solid	300.0	6290
890-1065-3	MW-10-80	Soluble	Solid	300.0	6290
890-1065-4	MW-10-105	Soluble	Solid	300.0	6290
890-1065-5	MW-11-4	Soluble	Solid	300.0	6290
890-1065-6	MW-11-30	Soluble	Solid	300.0	6290
890-1065-7	MW-11-80	Soluble	Solid	300.0	6290

QC Association Summary

Client: GHD Services Inc. Job ID: 890-1065-1
Project/Site: Flamenco #1 SDG: 11220747

HPLC/IC (Continued)

Analysis Batch: 6291 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1065-8	MW-11-100	Soluble	Solid	300.0	6290
890-1065-9	MW-11-105	Soluble	Solid	300.0	6290
MB 880-6290/1-A	Method Blank	Soluble	Solid	300.0	6290
LCS 880-6290/2-A	Lab Control Sample	Soluble	Solid	300.0	6290
LCSD 880-6290/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6290

Lab Chronicle

Client: GHD Services Inc. Job ID: 890-1065-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: MW-10-4 Lab Sample ID: 890-1065-1

Date Collected: 08/03/21 10:25 **Matrix: Solid**
Date Received: 08/06/21 11:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	6242	08/09/21 10:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6247	08/09/21 16:57	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6283	08/10/21 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6274	08/10/21 11:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6290	08/10/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		1			6291	08/10/21 17:48	CH	XEN MID

Client Sample ID: MW-10-40 Lab Sample ID: 890-1065-2

Date Collected: 08/03/21 11:10 **Matrix: Solid**
Date Received: 08/06/21 11:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6242	08/09/21 10:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6247	08/09/21 17:23	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6283	08/10/21 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6274	08/10/21 15:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6290	08/10/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		1			6291	08/10/21 17:53	CH	XEN MID

Client Sample ID: MW-10-80 Lab Sample ID: 890-1065-3

Date Collected: 08/04/21 15:10 **Matrix: Solid**
Date Received: 08/06/21 11:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6242	08/09/21 10:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6247	08/09/21 17:49	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6236	08/09/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6234	08/09/21 18:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6290	08/10/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		1			6291	08/10/21 18:10	CH	XEN MID

Client Sample ID: MW-10-105 Lab Sample ID: 890-1065-4

Date Collected: 08/04/21 16:30 **Matrix: Solid**
Date Received: 08/06/21 11:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6242	08/09/21 10:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6247	08/09/21 18:14	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6236	08/09/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6234	08/09/21 18:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6290	08/10/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		1			6291	08/10/21 18:15	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc. Job ID: 890-1065-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: MW-11-4 Lab Sample ID: 890-1065-5

Date Collected: 08/05/21 09:15 **Matrix: Solid**
Date Received: 08/06/21 11:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6242	08/09/21 10:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6247	08/09/21 18:40	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6236	08/09/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6234	08/09/21 19:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6290	08/10/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		1			6291	08/10/21 18:21	CH	XEN MID

Client Sample ID: MW-11-30 Lab Sample ID: 890-1065-6

Date Collected: 08/05/21 09:50 **Matrix: Solid**
Date Received: 08/06/21 11:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	6242	08/09/21 10:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6247	08/09/21 19:06	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6236	08/09/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6234	08/09/21 19:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6290	08/10/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		1			6291	08/10/21 18:26	CH	XEN MID

Client Sample ID: MW-11-80 Lab Sample ID: 890-1065-7

Date Collected: 08/05/21 13:40 **Matrix: Solid**
Date Received: 08/06/21 11:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6242	08/09/21 10:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6247	08/09/21 20:48	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6236	08/09/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6234	08/09/21 19:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6290	08/10/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		1			6291	08/10/21 18:32	CH	XEN MID

Client Sample ID: MW-11-100 Lab Sample ID: 890-1065-8

Date Collected: 08/05/21 15:15 **Matrix: Solid**
Date Received: 08/06/21 11:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6242	08/09/21 10:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6247	08/09/21 21:14	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6236	08/09/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6234	08/09/21 20:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6290	08/10/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		1			6291	08/10/21 18:37	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc. Job ID: 890-1065-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: MW-11-105 Lab Sample ID: 890-1065-9

Date Collected: 08/05/21 15:50 **Matrix: Solid**
Date Received: 08/06/21 11:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6242	08/09/21 10:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6247	08/09/21 21:40	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6236	08/09/21 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6234	08/09/21 20:23	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6290	08/10/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		1			6291	08/10/21 18:43	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: GHD Services Inc. Job ID: 890-1065-1
Project/Site: Flamenco #1 SDG: 11220747

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1065-1
SDG: 11220747

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1065-1	MW-10-4	Solid	08/03/21 10:25	08/06/21 11:44
890-1065-2	MW-10-40	Solid	08/03/21 11:10	08/06/21 11:44
890-1065-3	MW-10-80	Solid	08/04/21 15:10	08/06/21 11:44
890-1065-4	MW-10-105	Solid	08/04/21 16:30	08/06/21 11:44
890-1065-5	MW-11-4	Solid	08/05/21 09:15	08/06/21 11:44
890-1065-6	MW-11-30	Solid	08/05/21 09:50	08/06/21 11:44
890-1065-7	MW-11-80	Solid	08/05/21 13:40	08/06/21 11:44
890-1065-8	MW-11-100	Solid	08/05/21 15:15	08/06/21 11:44
890-1065-9	MW-11-105	Solid	08/05/21 15:50	08/06/21 11:44

Page 433 of 713

8/11/2021

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Becky Haskell	Bill to: (if different)	James Kennedy
Company Name:	GHD	Company Name:	EOG
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	432 250 7917	Email:	Becky.HaskellGghd.com

Work Order Comments

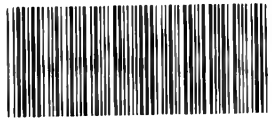
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flamenco #1	Turn Around	
Project Number:	11278747	☐ Routine ☑ Rush	
Project Location:		Due Date:	3 Day
Sampler's Name:	JW	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	T-NM-07	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.7	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	0.5 / 6.2 °C	
Total Containers:		Corrected Temperature:	6.3 / 6.0 / 5.8	

ANALYSIS REQUEST

Pres. Code | Parameters: Chlorides | BTEX | TPH (GRO, DRO, MRO)



Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Sample Comments
MW-10-4'	S	8-3-21	1025		G	1	
MW-10-40'		8-3-21	1110				
MW-10-80'		8-4-21	1510				
MW-10-105'		8-4-21	1630				
MW-11-4'		8-5-21	0915				
MW-11-30'		8-5-21	0950				
MW-11-80'		8-5-21	1340				
MW-11-100'		8-5-21	1515				
MW-11-105'		8-5-21	1550				

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: ~~8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U~~ Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		8/6/21 11:00	2		
			4		
			6		

Revised Date: 08/25/2020 Rev. 2020 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Simmons, Debbie	Carrier Tracking No(s):	COC No: 890-339 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: debbie.simmons@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-1065-1
Address: 1211 W Florida Ave, ,	Due Date Requested: 8/11/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: Flamenco #1	Project #: 88000221			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M Hexane		
B - NaOH	N None		
C - Zn Acetate	O AsNaO2		
D - Nitric Acid	P Na2O4S		
E - NaHSO4	Q Na2SO3		
F MeOH	R - Na2S2O3		
G - Amchlor	S - H2SO4		
H Ascorbic Acid	T TSP Dodecahydrate		
I Ice	U Acetone		
J DI Water	V MCAA		
K EDTA	W pH 4-5		
L EDA	Z other (specify)		

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH - NM	8021B/5035FP_Calc BTEX (bulk jar/FP prep)	300_ORGFM_28D/DI_LEACH Chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-10-4 (890-1065-1)	8/3/21	10 25 Mountain		Solid			X	X	X	1	
MW-10-40 (890-1065-2)	8/3/21	11 10 Mountain		Solid			X	X	X	1	
MW-10-80 (890-1065-3)	8/4/21	15 10 Mountain		Solid			X	X	X	1	
MW-10-105 (890-1065-4)	8/4/21	16 30 Mountain		Solid			X	X	X	1	
MW-11-4 (890-1065-5)	8/5/21	09 15 Mountain		Solid			X	X	X	1	
MW-11-30 (890-1065-6)	8/5/21	09 50 Mountain		Solid			X	X	X	1	
MW-11-80 (890-1065-7)	8/5/21	13 40 Mountain		Solid			X	X	X	1	
MW-11-100 (890-1065-8)	8/5/21	15 15 Mountain		Solid			X	X	X	1	
MW-11-105 (890-1065-9)	8/5/21	15 50 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by: Clue Carr 8-6-21	Date/Time	Company	Received by:	Date/Time: 8-9-21 9:00 am	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Page 434 of 713
Received by OCD: 2/28/2022 3:03:33 PM
8/11/2021
Page 26 of 28
Released to Imaging: 5/2/2022 3:32:26 PM

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1065-1
SDG Number: 11220747

Login Number: 1065
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1065-1
SDG Number: 11220747

Login Number: 1065
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 08/09/21 09:01 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1074-1
Laboratory Sample Delivery Group: 11220747
Client Project/Site: Flamenco #1

For:
GHD Services Inc.
2135 South Loop 250 West
Midland, Texas 79703

Attn: Becky Haskell

Authorized for release by:
8/12/2021 10:05:48 PM

Debbie Simmons, Project Manager
(281)240-4200
debbie.simmons@eurofinset.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: GHD Services Inc.
Project/Site: Flamenco #1

Laboratory Job ID: 890-1074-1
SDG: 11220747

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 5
Client Sample Results 6
Surrogate Summary 39
QC Sample Results 43
QC Association Summary 56
Lab Chronicle 66
Certification Summary 79
Method Summary 80
Sample Summary 81
Chain of Custody 82
Receipt Checklists 87

Definitions/Glossary

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Qualifiers

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Definitions/Glossary

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Job ID: 890-1074-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1074-1

Receipt
The samples were received on 8/9/2021 12:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.6°C

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: SB-37-2 (890-1074-38), SB-37-30 (890-1074-40), SB-35-4 (890-1074-41) and SB-34-2 (890-1074-45). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SB-44-25 (890-1074-4), SB-44-30 (890-1074-5), SB-16-10 (890-1074-14), SB-43-4 (890-1074-22), SB-43-40 (890-1074-25), (890-1074-A-12-B MS) and (890-1074-A-12-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The method blank for preparation batch 880-6329 and analytical batch 880-6274 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-44-2 Lab Sample ID: 890-1074-1

Date Collected: 08/06/21 09:00 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		08/10/21 08:51	08/10/21 16:26	1
Toluene	**0.000781**	**J**	0.00202	0.000460	mg/Kg		08/10/21 08:51	08/10/21 16:26	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/10/21 08:51	08/10/21 16:26	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 08:51	08/10/21 16:26	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/10/21 08:51	08/10/21 16:26	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 08:51	08/10/21 16:26	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 08:51	08/10/21 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*08/10/21 08:51*	*08/10/21 16:26*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*08/10/21 08:51*	*08/10/21 16:26*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 12:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 12:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 12:18	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*08/10/21 09:08*	*08/10/21 12:18*	*1*
o-Terphenyl	*93*		*70 - 130*	*08/10/21 09:08*	*08/10/21 12:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**77.8**		4.97	0.853	mg/Kg			08/12/21 02:07	1

Client Sample ID: SB-44-4 Lab Sample ID: 890-1074-2

Date Collected: 08/06/21 09:05 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00404**		0.00201	0.000387	mg/Kg		08/10/21 08:51	08/10/21 18:17	1
Toluene	**0.00168**	**J**	0.00201	0.000458	mg/Kg		08/10/21 08:51	08/10/21 18:17	1
Ethylbenzene	**0.00452**		0.00201	0.000567	mg/Kg		08/10/21 08:51	08/10/21 18:17	1
m-Xylene & p-Xylene	**0.0182**		0.00402	0.00101	mg/Kg		08/10/21 08:51	08/10/21 18:17	1
o-Xylene	**0.00515**		0.00201	0.000345	mg/Kg		08/10/21 08:51	08/10/21 18:17	1
Xylenes, Total	**0.0234**		0.00402	0.00101	mg/Kg		08/10/21 08:51	08/10/21 18:17	1
Total BTEX	**0.0336**		0.00402	0.00101	mg/Kg		08/10/21 08:51	08/10/21 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*08/10/21 08:51*	*08/10/21 18:17*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*08/10/21 08:51*	*08/10/21 18:17*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 13:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-44-4
Lab Sample ID: 890-1074-2
Date Collected: 08/06/21 09:05 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 13:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 13:23	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*08/10/21 09:08*	*08/10/21 13:23*	*1*
o-Terphenyl	*98*		*70 - 130*	*08/10/21 09:08*	*08/10/21 13:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**59.9**		4.96	0.851	mg/Kg			08/12/21 02:13	1

Client Sample ID: SB-44-8
Lab Sample ID: 890-1074-3
Date Collected: 08/06/21 09:15 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 08:51	08/10/21 18:37	1
Toluene	**0.000852**	**J**	0.00200	0.000456	mg/Kg		08/10/21 08:51	08/10/21 18:37	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 08:51	08/10/21 18:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 08:51	08/10/21 18:37	1
o-Xylene	**0.000838**	**J**	0.00200	0.000344	mg/Kg		08/10/21 08:51	08/10/21 18:37	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 08:51	08/10/21 18:37	1
Total BTEX	**0.00169**	**J**	0.00400	0.00101	mg/Kg		08/10/21 08:51	08/10/21 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*08/10/21 08:51*	*08/10/21 18:37*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/10/21 08:51*	*08/10/21 18:37*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 13:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 13:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 13:45	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*08/10/21 09:08*	*08/10/21 13:45*	*1*
o-Terphenyl	*93*		*70 - 130*	*08/10/21 09:08*	*08/10/21 13:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4560**		25.2	4.33	mg/Kg			08/12/21 02:18	5

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-44-25 Lab Sample ID: 890-1074-4

Date Collected: 08/06/21 09:40 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00856		0.00199	0.000383	mg/Kg		08/10/21 08:51	08/10/21 18:57	1
Toluene	0.00154	J	0.00199	0.000454	mg/Kg		08/10/21 08:51	08/10/21 18:57	1
Ethylbenzene	0.00669		0.00199	0.000563	mg/Kg		08/10/21 08:51	08/10/21 18:57	1
m-Xylene & p-Xylene	0.00459		0.00398	0.00101	mg/Kg		08/10/21 08:51	08/10/21 18:57	1
o-Xylene	0.00530		0.00199	0.000343	mg/Kg		08/10/21 08:51	08/10/21 18:57	1
Xylenes, Total	0.00989		0.00398	0.00101	mg/Kg		08/10/21 08:51	08/10/21 18:57	1
Total BTEX	0.0267		0.00398	0.00101	mg/Kg		08/10/21 08:51	08/10/21 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*08/10/21 08:51*	*08/10/21 18:57*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*08/10/21 08:51*	*08/10/21 18:57*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 14:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 14:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 14:06	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*08/10/21 09:08*	*08/10/21 14:06*	*1*
o-Terphenyl	*86*		*70 - 130*	*08/10/21 09:08*	*08/10/21 14:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.9		4.98	0.855	mg/Kg			08/12/21 02:24	1

Client Sample ID: SB-44-30 Lab Sample ID: 890-1074-5

Date Collected: 08/06/21 09:45 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000860	J	0.00199	0.000383	mg/Kg		08/10/21 08:51	08/10/21 19:18	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/10/21 08:51	08/10/21 19:18	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/10/21 08:51	08/10/21 19:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 08:51	08/10/21 19:18	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/10/21 08:51	08/10/21 19:18	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 08:51	08/10/21 19:18	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 08:51	08/10/21 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*08/10/21 08:51*	*08/10/21 19:18*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*08/10/21 08:51*	*08/10/21 19:18*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 14:27	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-44-30 Lab Sample ID: 890-1074-5

Date Collected: 08/06/21 09:45 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 14:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 14:27	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*08/10/21 09:08*	*08/10/21 14:27*	*1*
o-Terphenyl	*86*		*70 - 130*	*08/10/21 09:08*	*08/10/21 14:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**96.6**		5.00	0.858	mg/Kg			08/12/21 02:30	1

Client Sample ID: SB-15-2 Lab Sample ID: 890-1074-6

Date Collected: 08/06/21 09:55 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/10/21 08:51	08/10/21 19:38	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/10/21 08:51	08/10/21 19:38	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/10/21 08:51	08/10/21 19:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 08:51	08/10/21 19:38	1
o-Xylene	**0.000515**	**J**	0.00200	0.000343	mg/Kg		08/10/21 08:51	08/10/21 19:38	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 08:51	08/10/21 19:38	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 08:51	08/10/21 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/10/21 08:51*	*08/10/21 19:38*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*08/10/21 08:51*	*08/10/21 19:38*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 14:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 14:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 14:49	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*08/10/21 09:08*	*08/10/21 14:49*	*1*
o-Terphenyl	*91*		*70 - 130*	*08/10/21 09:08*	*08/10/21 14:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**563**		5.02	0.862	mg/Kg			08/12/21 02:46	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-15-4 Lab Sample ID: 890-1074-7

Date Collected: 08/06/21 10:00 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 08:51	08/10/21 19:59	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/10/21 08:51	08/10/21 19:59	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/10/21 08:51	08/10/21 19:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 08:51	08/10/21 19:59	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/10/21 08:51	08/10/21 19:59	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 08:51	08/10/21 19:59	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 08:51	08/10/21 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/10/21 08:51*	*08/10/21 19:59*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*08/10/21 08:51*	*08/10/21 19:59*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 15:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 15:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 15:11	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*08/10/21 09:08*	*08/10/21 15:11*	*1*
o-Terphenyl	*100*		*70 - 130*	*08/10/21 09:08*	*08/10/21 15:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**970**		5.00	0.858	mg/Kg			08/12/21 02:52	1

Client Sample ID: SB-15-6 Lab Sample ID: 890-1074-8

Date Collected: 08/06/21 10:20 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/10/21 08:51	08/10/21 20:19	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/10/21 08:51	08/10/21 20:19	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/10/21 08:51	08/10/21 20:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 08:51	08/10/21 20:19	1
o-Xylene	**0.000546**	**J**	0.00200	0.000343	mg/Kg		08/10/21 08:51	08/10/21 20:19	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 08:51	08/10/21 20:19	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 08:51	08/10/21 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*08/10/21 08:51*	*08/10/21 20:19*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/10/21 08:51*	*08/10/21 20:19*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 15:32	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-15-6 Lab Sample ID: 890-1074-8

Date Collected: 08/06/21 10:20 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 15:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 15:32	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*08/10/21 09:08*	*08/10/21 15:32*	*1*
o-Terphenyl	*90*		*70 - 130*	*08/10/21 09:08*	*08/10/21 15:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6250**		49.5	8.50	mg/Kg			08/12/21 03:09	10

Client Sample ID: SB-15-35 Lab Sample ID: 890-1074-9

Date Collected: 08/06/21 11:20 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000595**	**J**	0.00200	0.000386	mg/Kg		08/10/21 08:51	08/10/21 20:39	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		08/10/21 08:51	08/10/21 20:39	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		08/10/21 08:51	08/10/21 20:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		08/10/21 08:51	08/10/21 20:39	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		08/10/21 08:51	08/10/21 20:39	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		08/10/21 08:51	08/10/21 20:39	1
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg		08/10/21 08:51	08/10/21 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*08/10/21 08:51*	*08/10/21 20:39*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*08/10/21 08:51*	*08/10/21 20:39*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 15:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 15:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 15:55	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*08/10/21 09:08*	*08/10/21 15:55*	*1*
o-Terphenyl	*96*		*70 - 130*	*08/10/21 09:08*	*08/10/21 15:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**626**		4.96	0.851	mg/Kg			08/12/21 03:14	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-15-40

Lab Sample ID: 890-1074-10
Matrix: Solid
Date Collected: 08/06/21 11:30
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000949**	**J**	0.00201	0.000387	mg/Kg		08/10/21 08:51	08/10/21 21:00	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/10/21 08:51	08/10/21 21:00	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		08/10/21 08:51	08/10/21 21:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 08:51	08/10/21 21:00	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		08/10/21 08:51	08/10/21 21:00	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 08:51	08/10/21 21:00	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 08:51	08/10/21 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*08/10/21 08:51*	*08/10/21 21:00*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/10/21 08:51*	*08/10/21 21:00*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 16:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 16:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 16:16	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*08/10/21 09:08*	*08/10/21 16:16*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/10/21 09:08*	*08/10/21 16:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**61.3**		4.98	0.855	mg/Kg			08/12/21 03:20	1

Client Sample ID: SB-15-45

Lab Sample ID: 890-1074-11
Matrix: Solid
Date Collected: 08/06/21 11:50
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		08/10/21 08:51	08/10/21 21:20	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		08/10/21 08:51	08/10/21 21:20	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/10/21 08:51	08/10/21 21:20	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 08:51	08/10/21 21:20	1
o-Xylene	**0.000650**	**J**	0.00202	0.000347	mg/Kg		08/10/21 08:51	08/10/21 21:20	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 08:51	08/10/21 21:20	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 08:51	08/10/21 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*08/10/21 08:51*	*08/10/21 21:20*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/10/21 08:51*	*08/10/21 21:20*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:01	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-15-45 Lab Sample ID: 890-1074-11

Date Collected: 08/06/21 11:50 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:01	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:01	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*08/10/21 09:08*	*08/10/21 17:01*	*1*
o-Terphenyl	*105*		*70 - 130*	*08/10/21 09:08*	*08/10/21 17:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**257**		4.96	0.851	mg/Kg			08/11/21 10:30	1

Client Sample ID: SB-16-2 Lab Sample ID: 890-1074-12

Date Collected: 08/06/21 12:05 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	0.000383	mg/Kg		08/10/21 11:38	08/11/21 00:58	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/10/21 11:38	08/11/21 00:58	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/10/21 11:38	08/11/21 00:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 11:38	08/11/21 00:58	1
o-Xylene	**0.000736**	**J**	0.00199	0.000342	mg/Kg		08/10/21 11:38	08/11/21 00:58	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 11:38	08/11/21 00:58	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 11:38	08/11/21 00:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*08/10/21 11:38*	*08/11/21 00:58*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/10/21 11:38*	*08/11/21 00:58*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:23	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:23	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*08/10/21 09:08*	*08/10/21 17:23*	*1*
o-Terphenyl	*95*		*70 - 130*	*08/10/21 09:08*	*08/10/21 17:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.4**		4.98	0.855	mg/Kg			08/11/21 10:47	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-16-4
Lab Sample ID: 890-1074-13
Date Collected: 08/06/21 12:10 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/10/21 11:38	08/11/21 01:19	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/10/21 11:38	08/11/21 01:19	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/10/21 11:38	08/11/21 01:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 01:19	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/10/21 11:38	08/11/21 01:19	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 01:19	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 01:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*08/10/21 11:38*	*08/11/21 01:19*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/10/21 11:38*	*08/11/21 01:19*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:44	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*08/10/21 09:08*	*08/10/21 17:44*	*1*
o-Terphenyl	*86*		*70 - 130*	*08/10/21 09:08*	*08/10/21 17:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**54.4**		5.00	0.858	mg/Kg			08/11/21 10:53	1

Client Sample ID: SB-16-10
Lab Sample ID: 890-1074-14
Date Collected: 08/06/21 13:45 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000510**	**J**	0.00200	0.000386	mg/Kg		08/10/21 11:38	08/11/21 01:39	1
Toluene	**0.000880**	**J B**	0.00200	0.000457	mg/Kg		08/10/21 11:38	08/11/21 01:39	1
Ethylbenzene	**0.000630**	**J**	0.00200	0.000566	mg/Kg		08/10/21 11:38	08/11/21 01:39	1
m-Xylene & p-Xylene	**0.00496**		0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 01:39	1
o-Xylene	**0.00633**		0.00200	0.000345	mg/Kg		08/10/21 11:38	08/11/21 01:39	1
Xylenes, Total	**0.0113**		0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 01:39	1
Total BTEX	**0.0133**		0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*163*	*S1+*	*70 - 130*	*08/10/21 11:38*	*08/11/21 01:39*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*08/10/21 11:38*	*08/11/21 01:39*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 18:06	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-16-10 Lab Sample ID: 890-1074-14

Date Collected: 08/06/21 13:45 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 18:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 18:06	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*08/10/21 09:08*	*08/10/21 18:06*	*1*
o-Terphenyl	*90*		*70 - 130*	*08/10/21 09:08*	*08/10/21 18:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.2**		4.97	0.853	mg/Kg			08/11/21 10:58	1

Client Sample ID: SB-16-20 Lab Sample ID: 890-1074-15

Date Collected: 08/06/21 14:00 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		08/10/21 11:38	08/11/21 01:59	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/10/21 11:38	08/11/21 01:59	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		08/10/21 11:38	08/11/21 01:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 11:38	08/11/21 01:59	1
o-Xylene	**0.000461**	**J**	0.00201	0.000345	mg/Kg		08/10/21 11:38	08/11/21 01:59	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 11:38	08/11/21 01:59	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 11:38	08/11/21 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*08/10/21 11:38*	*08/11/21 01:59*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/10/21 11:38*	*08/11/21 01:59*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 18:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 18:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 18:28	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*08/10/21 09:08*	*08/10/21 18:28*	*1*
o-Terphenyl	*96*		*70 - 130*	*08/10/21 09:08*	*08/10/21 18:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**79.1**		4.99	0.857	mg/Kg			08/11/21 11:04	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-14-2 Lab Sample ID: 890-1074-16

Date Collected: 08/06/21 14:05 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000529**	**J**	0.00202	0.000388	mg/Kg		08/10/21 11:38	08/11/21 02:20	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		08/10/21 11:38	08/11/21 02:20	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/10/21 11:38	08/11/21 02:20	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 11:38	08/11/21 02:20	1
o-Xylene	**0.000364**	**J**	0.00202	0.000347	mg/Kg		08/10/21 11:38	08/11/21 02:20	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 11:38	08/11/21 02:20	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 11:38	08/11/21 02:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*08/10/21 11:38*	*08/11/21 02:20*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*08/10/21 11:38*	*08/11/21 02:20*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 18:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 18:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 18:49	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:08	08/10/21 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*08/10/21 09:08*	*08/10/21 18:49*	*1*
o-Terphenyl	*94*		*70 - 130*	*08/10/21 09:08*	*08/10/21 18:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**213**		4.98	0.855	mg/Kg			08/11/21 11:21	1

Client Sample ID: SB-14-4 Lab Sample ID: 890-1074-17

Date Collected: 08/06/21 14:20 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00971**		0.00200	0.000384	mg/Kg		08/10/21 11:38	08/11/21 02:40	1
Toluene	**0.00269**	**B**	0.00200	0.000455	mg/Kg		08/10/21 11:38	08/11/21 02:40	1
Ethylbenzene	**0.00986**		0.00200	0.000564	mg/Kg		08/10/21 11:38	08/11/21 02:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 02:40	1
o-Xylene	**0.00750**		0.00200	0.000343	mg/Kg		08/10/21 11:38	08/11/21 02:40	1
Xylenes, Total	**0.00750**		0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 02:40	1
Total BTEX	**0.0298**		0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*08/10/21 11:38*	*08/11/21 02:40*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*08/10/21 11:38*	*08/11/21 02:40*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 19:10	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-14-4 Lab Sample ID: 890-1074-17

Date Collected: 08/06/21 14:20 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 19:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 19:10	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*08/10/21 09:08*	*08/10/21 19:10*	*1*
o-Terphenyl	*99*		*70 - 130*	*08/10/21 09:08*	*08/10/21 19:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1130**		4.95	0.850	mg/Kg			08/11/21 12:05	1

Client Sample ID: SB-14-25 Lab Sample ID: 890-1074-18

Date Collected: 08/06/21 14:50 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000424**	**J**	0.00201	0.000387	mg/Kg		08/10/21 11:38	08/11/21 03:01	1
Toluene	**0.000983**	**J B**	0.00201	0.000458	mg/Kg		08/10/21 11:38	08/11/21 03:01	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		08/10/21 11:38	08/11/21 03:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 11:38	08/11/21 03:01	1
o-Xylene	**0.000451**	**J**	0.00201	0.000345	mg/Kg		08/10/21 11:38	08/11/21 03:01	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 11:38	08/11/21 03:01	1
Total BTEX	**0.00186**	**J**	0.00402	0.00101	mg/Kg		08/10/21 11:38	08/11/21 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*08/10/21 11:38*	*08/11/21 03:01*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*08/10/21 11:38*	*08/11/21 03:01*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 19:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 19:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 19:31	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:08	08/10/21 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*08/10/21 09:08*	*08/10/21 19:31*	*1*
o-Terphenyl	*88*		*70 - 130*	*08/10/21 09:08*	*08/10/21 19:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2180**		25.2	4.33	mg/Kg			08/11/21 12:22	5

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-14-30

Date Collected: 08/06/21 14:55
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-19

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 11:38	08/11/21 03:21	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/10/21 11:38	08/11/21 03:21	1
Ethylbenzene	**0.000581**	**J**	0.00199	0.000563	mg/Kg		08/10/21 11:38	08/11/21 03:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 11:38	08/11/21 03:21	1
o-Xylene	**0.000581**	**J**	0.00199	0.000343	mg/Kg		08/10/21 11:38	08/11/21 03:21	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 11:38	08/11/21 03:21	1
Total BTEX	**0.00116**	**J**	0.00398	0.00101	mg/Kg		08/10/21 11:38	08/11/21 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*08/10/21 11:38*	*08/11/21 03:21*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*08/10/21 11:38*	*08/11/21 03:21*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 19:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 19:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 19:51	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*08/10/21 09:08*	*08/10/21 19:51*	*1*
o-Terphenyl	*84*		*70 - 130*	*08/10/21 09:08*	*08/10/21 19:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**166**		4.97	0.853	mg/Kg			08/11/21 12:27	1

Client Sample ID: SB-14-35

Date Collected: 08/06/21 15:00
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-20

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/10/21 11:38	08/11/21 03:41	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/10/21 11:38	08/11/21 03:41	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/10/21 11:38	08/11/21 03:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 03:41	1
o-Xylene	**0.000361**	**J**	0.00200	0.000343	mg/Kg		08/10/21 11:38	08/11/21 03:41	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 03:41	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 03:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*08/10/21 11:38*	*08/11/21 03:41*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/10/21 11:38*	*08/11/21 03:41*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 20:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-14-35

Date Collected: 08/06/21 15:00
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-20
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 20:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 20:12	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*08/10/21 09:08*	*08/10/21 20:12*	*1*
o-Terphenyl	*86*		*70 - 130*	*08/10/21 09:08*	*08/10/21 20:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**176**		4.99	0.857	mg/Kg			08/11/21 12:33	1

Client Sample ID: SB-43-2

Date Collected: 08/06/21 15:15
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-21
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		08/10/21 11:38	08/11/21 04:02	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		08/10/21 11:38	08/11/21 04:02	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		08/10/21 11:38	08/11/21 04:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 04:02	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		08/10/21 11:38	08/11/21 04:02	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 04:02	1
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*08/10/21 11:38*	*08/11/21 04:02*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*08/10/21 11:38*	*08/11/21 04:02*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 12:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 12:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 12:18	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*08/10/21 09:09*	*08/10/21 12:18*	*1*
o-Terphenyl	*150*	*S1+*	*70 - 130*	*08/10/21 09:09*	*08/10/21 12:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7240**		50.5	8.67	mg/Kg			08/11/21 12:38	10

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-43-4 Lab Sample ID: 890-1074-22

Date Collected: 08/06/21 15:20 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000437**	**J**	0.00201	0.000387	mg/Kg		08/10/21 11:38	08/11/21 05:51	1
Toluene	**0.00164**	**J B**	0.00201	0.000458	mg/Kg		08/10/21 11:38	08/11/21 05:51	1
Ethylbenzene	**0.00195**	**J**	0.00201	0.000567	mg/Kg		08/10/21 11:38	08/11/21 05:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 11:38	08/11/21 05:51	1
o-Xylene	**0.00193**	**J**	0.00201	0.000345	mg/Kg		08/10/21 11:38	08/11/21 05:51	1
Xylenes, Total	**0.00193**	**J**	0.00402	0.00101	mg/Kg		08/10/21 11:38	08/11/21 05:51	1
Total BTEX	**0.00596**		0.00402	0.00101	mg/Kg		08/10/21 11:38	08/11/21 05:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*155*	*S1+*	*70 - 130*	*08/10/21 11:38*	*08/11/21 05:51*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/10/21 11:38*	*08/11/21 05:51*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 13:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 13:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 13:23	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*08/10/21 09:09*	*08/10/21 13:23*	*1*
o-Terphenyl	*119*		*70 - 130*	*08/10/21 09:09*	*08/10/21 13:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10700**		49.8	8.55	mg/Kg			08/11/21 12:55	10

Client Sample ID: SB-43-25 Lab Sample ID: 890-1074-23

Date Collected: 08/06/21 15:50 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		08/10/21 11:38	08/11/21 06:12	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		08/10/21 11:38	08/11/21 06:12	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		08/10/21 11:38	08/11/21 06:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		08/10/21 11:38	08/11/21 06:12	1
o-Xylene	**0.000794**	**J**	0.00201	0.000346	mg/Kg		08/10/21 11:38	08/11/21 06:12	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		08/10/21 11:38	08/11/21 06:12	1
Total BTEX	<0.00402	U	0.00402	0.00102	mg/Kg		08/10/21 11:38	08/11/21 06:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*08/10/21 11:38*	*08/11/21 06:12*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*08/10/21 11:38*	*08/11/21 06:12*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 13:45	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-43-25 Lab Sample ID: 890-1074-23

Date Collected: 08/06/21 15:50 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 13:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 13:45	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*08/10/21 09:09*	*08/10/21 13:45*	*1*
o-Terphenyl	*123*		*70 - 130*	*08/10/21 09:09*	*08/10/21 13:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1560**		24.8	4.25	mg/Kg			08/12/21 11:02	5

Client Sample ID: SB-43-35 Lab Sample ID: 890-1074-24

Date Collected: 08/07/21 09:20 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		08/11/21 10:00	08/11/21 22:02	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		08/11/21 10:00	08/11/21 22:02	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/11/21 10:00	08/11/21 22:02	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/11/21 10:00	08/11/21 22:02	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/11/21 10:00	08/11/21 22:02	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/11/21 10:00	08/11/21 22:02	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		08/11/21 10:00	08/11/21 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*164*	*S1+*	*70 - 130*	*08/11/21 10:00*	*08/11/21 22:02*	*1*
1,4-Difluorobenzene (Surr)	*144*	*S1+*	*70 - 130*	*08/11/21 10:00*	*08/11/21 22:02*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 14:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 14:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 14:06	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*08/10/21 09:09*	*08/10/21 14:06*	*1*
o-Terphenyl	*114*		*70 - 130*	*08/10/21 09:09*	*08/10/21 14:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1970**		25.1	4.31	mg/Kg			08/11/21 13:05	5

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-43-40 Lab Sample ID: 890-1074-25

Date Collected: 08/07/21 09:30 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00351**		0.00200	0.000386	mg/Kg		08/10/21 11:38	08/11/21 06:52	1
Toluene	**0.00538**	**B**	0.00200	0.000457	mg/Kg		08/10/21 11:38	08/11/21 06:52	1
Ethylbenzene	**0.00340**		0.00200	0.000566	mg/Kg		08/10/21 11:38	08/11/21 06:52	1
m-Xylene & p-Xylene	**0.00327**	**J**	0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 06:52	1
o-Xylene	**0.000881**	**J**	0.00200	0.000345	mg/Kg		08/10/21 11:38	08/11/21 06:52	1
Xylenes, Total	**0.00415**		0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 06:52	1
Total BTEX	**0.0164**		0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 06:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*08/10/21 11:38*	*08/11/21 06:52*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/10/21 11:38*	*08/11/21 06:52*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 14:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 14:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 14:27	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*08/10/21 09:09*	*08/10/21 14:27*	*1*
o-Terphenyl	*114*		*70 - 130*	*08/10/21 09:09*	*08/10/21 14:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**391**		4.97	0.853	mg/Kg			08/11/21 13:11	1

Client Sample ID: SB-43-45 Lab Sample ID: 890-1074-26

Date Collected: 08/07/21 10:30 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 11:38	08/11/21 07:13	1
Toluene	**0.000502**	**J B**	0.00200	0.000456	mg/Kg		08/10/21 11:38	08/11/21 07:13	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 11:38	08/11/21 07:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 11:38	08/11/21 07:13	1
o-Xylene	**0.000563**	**J**	0.00200	0.000344	mg/Kg		08/10/21 11:38	08/11/21 07:13	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 11:38	08/11/21 07:13	1
Total BTEX	**0.00107**	**J**	0.00400	0.00101	mg/Kg		08/10/21 11:38	08/11/21 07:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*08/10/21 11:38*	*08/11/21 07:13*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/10/21 11:38*	*08/11/21 07:13*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 14:49	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-43-45 Lab Sample ID: 890-1074-26

Date Collected: 08/07/21 10:30 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 14:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 14:49	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*08/10/21 09:09*	*08/10/21 14:49*	*1*
o-Terphenyl	*97*		*70 - 130*	*08/10/21 09:09*	*08/10/21 14:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**660**		4.96	0.851	mg/Kg			08/11/21 13:16	1

Client Sample ID: SB-12-2 Lab Sample ID: 890-1074-27

Date Collected: 08/07/21 10:40 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 11:38	08/11/21 07:33	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/10/21 11:38	08/11/21 07:33	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/10/21 11:38	08/11/21 07:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 11:38	08/11/21 07:33	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/10/21 11:38	08/11/21 07:33	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 11:38	08/11/21 07:33	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 11:38	08/11/21 07:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/10/21 11:38*	*08/11/21 07:33*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/10/21 11:38*	*08/11/21 07:33*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 15:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 15:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 15:11	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*08/10/21 09:09*	*08/10/21 15:11*	*1*
o-Terphenyl	*118*		*70 - 130*	*08/10/21 09:09*	*08/10/21 15:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**938**	**F1**	5.00	0.858	mg/Kg			08/11/21 13:22	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-12-4 Lab Sample ID: 890-1074-28

Date Collected: 08/07/21 10:45 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000988**	**J**	0.00200	0.000384	mg/Kg		08/10/21 11:38	08/11/21 07:54	1
Toluene	**0.00334**	**B**	0.00200	0.000455	mg/Kg		08/10/21 11:38	08/11/21 07:54	1
Ethylbenzene	**0.00360**		0.00200	0.000564	mg/Kg		08/10/21 11:38	08/11/21 07:54	1
m-Xylene & p-Xylene	**0.00256**	**J**	0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 07:54	1
o-Xylene	**0.00241**		0.00200	0.000343	mg/Kg		08/10/21 11:38	08/11/21 07:54	1
Xylenes, Total	**0.00497**		0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 07:54	1
Total BTEX	**0.0129**		0.00399	0.00101	mg/Kg		08/10/21 11:38	08/11/21 07:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*08/10/21 11:38*	*08/11/21 07:54*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*08/10/21 11:38*	*08/11/21 07:54*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 15:32	1
Diesel Range Organics (Over C10-C28)	**15.1**	**J**	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 15:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 15:32	1
Total TPH	**15.1**	**J**	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*08/10/21 09:09*	*08/10/21 15:32*	*1*
o-Terphenyl	*150*	*S1+*	*70 - 130*	*08/10/21 09:09*	*08/10/21 15:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10700**		49.8	8.55	mg/Kg			08/11/21 13:38	10

Client Sample ID: SB-12-20 Lab Sample ID: 890-1074-29

Date Collected: 08/07/21 11:20 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 11:38	08/11/21 08:14	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/10/21 11:38	08/11/21 08:14	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/10/21 11:38	08/11/21 08:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 11:38	08/11/21 08:14	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/10/21 11:38	08/11/21 08:14	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 11:38	08/11/21 08:14	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 11:38	08/11/21 08:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*08/10/21 11:38*	*08/11/21 08:14*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*08/10/21 11:38*	*08/11/21 08:14*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 15:55	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-12-20 Lab Sample ID: 890-1074-29

Date Collected: 08/07/21 11:20 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 15:55	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 15:55	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*08/10/21 09:09*	*08/10/21 15:55*	*1*
o-Terphenyl	*146*	*S1+*	*70 - 130*	*08/10/21 09:09*	*08/10/21 15:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5310**		24.9	4.27	mg/Kg			08/11/21 13:44	5

Client Sample ID: SB-12-40 Lab Sample ID: 890-1074-30

Date Collected: 08/07/21 12:00 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000407**	**J**	0.00200	0.000386	mg/Kg		08/10/21 11:38	08/11/21 08:58	1
Toluene	**0.000889**	**J B**	0.00200	0.000457	mg/Kg		08/10/21 11:38	08/11/21 08:58	1
Ethylbenzene	**0.000859**	**J**	0.00200	0.000566	mg/Kg		08/10/21 11:38	08/11/21 08:58	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 08:58	1
o-Xylene	**0.000612**	**J**	0.00200	0.000345	mg/Kg		08/10/21 11:38	08/11/21 08:58	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 08:58	1
Total BTEX	**0.00277**	**J**	0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 08:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*08/10/21 11:38*	*08/11/21 08:58*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/10/21 11:38*	*08/11/21 08:58*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 16:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 16:16	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 16:16	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*08/10/21 09:09*	*08/10/21 16:16*	*1*
o-Terphenyl	*158*	*S1+*	*70 - 130*	*08/10/21 09:09*	*08/10/21 16:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**774**		4.95	0.850	mg/Kg			08/11/21 14:00	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-12-45 Lab Sample ID: 890-1074-31

Date Collected: 08/07/21 12:00 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0505**		0.00200	0.000386	mg/Kg		08/10/21 11:38	08/11/21 09:19	1
Toluene	**0.00602**	**B**	0.00200	0.000457	mg/Kg		08/10/21 11:38	08/11/21 09:19	1
Ethylbenzene	**0.0547**		0.00200	0.000566	mg/Kg		08/10/21 11:38	08/11/21 09:19	1
m-Xylene & p-Xylene	**0.0580**		0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 09:19	1
o-Xylene	**0.0389**		0.00200	0.000345	mg/Kg		08/10/21 11:38	08/11/21 09:19	1
Xylenes, Total	**0.0969**		0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 09:19	1
Total BTEX	**0.208**		0.00401	0.00101	mg/Kg		08/10/21 11:38	08/11/21 09:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*556*	*S1+*	*70 - 130*	*08/10/21 11:38*	*08/11/21 09:19*	*1*
1,4-Difluorobenzene (Surr)	*6*	*S1-*	*70 - 130*	*08/10/21 11:38*	*08/11/21 09:19*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:01	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*08/10/21 09:09*	*08/10/21 17:01*	*1*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*08/10/21 09:09*	*08/10/21 17:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**605**		5.04	0.865	mg/Kg			08/11/21 14:06	1

Client Sample ID: SB-38-2 Lab Sample ID: 890-1074-32

Date Collected: 08/07/21 13:15 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		08/10/21 09:18	08/10/21 15:05	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		08/10/21 09:18	08/10/21 15:05	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/10/21 09:18	08/10/21 15:05	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 09:18	08/10/21 15:05	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/10/21 09:18	08/10/21 15:05	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 09:18	08/10/21 15:05	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		08/10/21 09:18	08/10/21 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*08/10/21 09:18*	*08/10/21 15:05*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/10/21 09:18*	*08/10/21 15:05*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:23	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-38-2 Lab Sample ID: 890-1074-32

Date Collected: 08/07/21 13:15 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:23	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*08/10/21 09:09*	*08/10/21 17:23*	*1*
o-Terphenyl	*148*	*S1+*	*70 - 130*	*08/10/21 09:09*	*08/10/21 17:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.2**		5.02	0.862	mg/Kg			08/11/21 14:11	1

Client Sample ID: SB-38-4 Lab Sample ID: 890-1074-33

Date Collected: 08/07/21 13:20 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 09:18	08/10/21 15:26	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/10/21 09:18	08/10/21 15:26	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/10/21 09:18	08/10/21 15:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:18	08/10/21 15:26	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/10/21 09:18	08/10/21 15:26	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:18	08/10/21 15:26	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:18	08/10/21 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*08/10/21 09:18*	*08/10/21 15:26*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*08/10/21 09:18*	*08/10/21 15:26*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:44	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*08/10/21 09:09*	*08/10/21 17:44*	*1*
o-Terphenyl	*122*		*70 - 130*	*08/10/21 09:09*	*08/10/21 17:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**72.4**		4.97	0.853	mg/Kg			08/11/21 14:17	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-38-20 Lab Sample ID: 890-1074-34

Date Collected: 08/07/21 14:05 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/10/21 09:18	08/10/21 15:46	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/10/21 09:18	08/10/21 15:46	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/10/21 09:18	08/10/21 15:46	1
m-Xylene & p-Xylene	**0.00144**	**J**	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 15:46	1
o-Xylene	**0.000570**	**J**	0.00200	0.000343	mg/Kg		08/10/21 09:18	08/10/21 15:46	1
Xylenes, Total	**0.00201**	**J**	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 15:46	1
Total BTEX	**0.00201**	**J**	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*08/10/21 09:18*	*08/10/21 15:46*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/10/21 09:18*	*08/10/21 15:46*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 18:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 18:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 18:06	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*08/10/21 09:09*	*08/10/21 18:06*	*1*
o-Terphenyl	*123*		*70 - 130*	*08/10/21 09:09*	*08/10/21 18:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2680**		24.8	4.25	mg/Kg			08/11/21 14:22	5

Client Sample ID: SB-38-40 Lab Sample ID: 890-1074-35

Date Collected: 08/07/21 14:25 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/10/21 09:18	08/10/21 16:06	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/10/21 09:18	08/10/21 16:06	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/10/21 09:18	08/10/21 16:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 16:06	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/10/21 09:18	08/10/21 16:06	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 16:06	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*08/10/21 09:18*	*08/10/21 16:06*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/10/21 09:18*	*08/10/21 16:06*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 18:28	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-38-40 Lab Sample ID: 890-1074-35

Date Collected: 08/07/21 14:25 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 18:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 18:28	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*08/10/21 09:09*	*08/10/21 18:28*	*1*
o-Terphenyl	*115*		*70 - 130*	*08/10/21 09:09*	*08/10/21 18:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**54.6**		4.95	0.850	mg/Kg			08/11/21 14:28	1

Client Sample ID: SB-38-60 Lab Sample ID: 890-1074-36

Date Collected: 08/07/21 15:30 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/10/21 09:18	08/10/21 16:27	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/10/21 09:18	08/10/21 16:27	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/10/21 09:18	08/10/21 16:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 16:27	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/10/21 09:18	08/10/21 16:27	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 16:27	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*08/10/21 09:18*	*08/10/21 16:27*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*08/10/21 09:18*	*08/10/21 16:27*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 18:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 18:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 18:49	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:09	08/10/21 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*08/10/21 09:09*	*08/10/21 18:49*	*1*
o-Terphenyl	*106*		*70 - 130*	*08/10/21 09:09*	*08/10/21 18:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**412**		4.95	0.850	mg/Kg			08/11/21 14:33	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-38-65 Lab Sample ID: 890-1074-37

Date Collected: 08/07/21 15:50 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 09:18	08/10/21 17:50	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/10/21 09:18	08/10/21 17:50	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/10/21 09:18	08/10/21 17:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:18	08/10/21 17:50	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/10/21 09:18	08/10/21 17:50	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:18	08/10/21 17:50	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:18	08/10/21 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*08/10/21 09:18*	*08/10/21 17:50*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/10/21 09:18*	*08/10/21 17:50*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 19:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 19:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 19:10	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*08/10/21 09:09*	*08/10/21 19:10*	*1*
o-Terphenyl	*111*		*70 - 130*	*08/10/21 09:09*	*08/10/21 19:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64.5**		4.98	0.855	mg/Kg			08/11/21 18:44	1

Client Sample ID: SB-37-2 Lab Sample ID: 890-1074-38

Date Collected: 08/07/21 16:10 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000401**	**J**	0.00198	0.000381	mg/Kg		08/10/21 09:18	08/10/21 18:10	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		08/10/21 09:18	08/10/21 18:10	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		08/10/21 09:18	08/10/21 18:10	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:18	08/10/21 18:10	1
o-Xylene	**0.000618**	**J**	0.00198	0.000341	mg/Kg		08/10/21 09:18	08/10/21 18:10	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:18	08/10/21 18:10	1
Total BTEX	**0.00102**	**J**	0.00396	0.00100	mg/Kg		08/10/21 09:18	08/10/21 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*08/10/21 09:18*	*08/10/21 18:10*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/10/21 09:18*	*08/10/21 18:10*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 19:31	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-37-2 Lab Sample ID: 890-1074-38

Date Collected: 08/07/21 16:10 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 19:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 19:31	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:09	08/10/21 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*08/10/21 09:09*	*08/10/21 19:31*	*1*
o-Terphenyl	*115*		*70 - 130*	*08/10/21 09:09*	*08/10/21 19:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.8**		5.02	0.862	mg/Kg			08/11/21 19:01	1

Client Sample ID: SB-37-4 Lab Sample ID: 890-1074-39

Date Collected: 08/07/21 16:25 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 09:18	08/10/21 18:30	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/10/21 09:18	08/10/21 18:30	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 09:18	08/10/21 18:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 18:30	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/10/21 09:18	08/10/21 18:30	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 18:30	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*08/10/21 09:18*	*08/10/21 18:30*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/10/21 09:18*	*08/10/21 18:30*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 19:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 19:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 19:51	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*08/10/21 09:09*	*08/10/21 19:51*	*1*
o-Terphenyl	*116*		*70 - 130*	*08/10/21 09:09*	*08/10/21 19:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1480**		4.95	0.850	mg/Kg			08/11/21 19:07	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-37-30

Date Collected: 08/07/21 17:10
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-40

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		08/10/21 09:18	08/10/21 18:51	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/10/21 09:18	08/10/21 18:51	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		08/10/21 09:18	08/10/21 18:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 09:18	08/10/21 18:51	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		08/10/21 09:18	08/10/21 18:51	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 09:18	08/10/21 18:51	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 09:18	08/10/21 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*08/10/21 09:18*	*08/10/21 18:51*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*08/10/21 09:18*	*08/10/21 18:51*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 20:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 20:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 20:12	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*08/10/21 09:09*	*08/10/21 20:12*	*1*
o-Terphenyl	*128*		*70 - 130*	*08/10/21 09:09*	*08/10/21 20:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**986**		4.98	0.855	mg/Kg			08/11/21 19:12	1

Client Sample ID: SB-35-4

Date Collected: 08/08/21 12:25
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-41

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 09:18	08/10/21 19:11	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/10/21 09:18	08/10/21 19:11	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/10/21 09:18	08/10/21 19:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:18	08/10/21 19:11	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/10/21 09:18	08/10/21 19:11	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:18	08/10/21 19:11	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:18	08/10/21 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*08/10/21 09:18*	*08/10/21 19:11*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*08/10/21 09:18*	*08/10/21 19:11*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 17:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-35-4

Lab Sample ID: 890-1074-41
Matrix: Solid
Date Collected: 08/08/21 12:25
Date Received: 08/09/21 12:05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 17:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 17:01	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*08/10/21 09:07*	*08/10/21 17:01*	*1*
o-Terphenyl	*84*		*70 - 130*	*08/10/21 09:07*	*08/10/21 17:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**966**		4.99	0.857	mg/Kg			08/11/21 19:18	1

Client Sample ID: SB-35-25

Lab Sample ID: 890-1074-42
Matrix: Solid
Date Collected: 08/08/21 13:40
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 09:18	08/10/21 19:32	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/10/21 09:18	08/10/21 19:32	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 09:18	08/10/21 19:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 19:32	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/10/21 09:18	08/10/21 19:32	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 19:32	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*08/10/21 09:18*	*08/10/21 19:32*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/10/21 09:18*	*08/10/21 19:32*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 17:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 17:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 17:23	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*08/10/21 09:07*	*08/10/21 17:23*	*1*
o-Terphenyl	*90*		*70 - 130*	*08/10/21 09:07*	*08/10/21 17:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**860**		4.99	0.857	mg/Kg			08/11/21 19:35	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-35-40

Date Collected: 08/08/21 16:05
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-43

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/10/21 09:18	08/10/21 19:52	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/10/21 09:18	08/10/21 19:52	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/10/21 09:18	08/10/21 19:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 19:52	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/10/21 09:18	08/10/21 19:52	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 19:52	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:18	08/10/21 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*08/10/21 09:18*	*08/10/21 19:52*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/10/21 09:18*	*08/10/21 19:52*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	14.9	mg/Kg		08/10/21 09:07	08/10/21 17:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:07	08/10/21 17:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:07	08/10/21 17:45	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:07	08/10/21 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*08/10/21 09:07*	*08/10/21 17:45*	*1*
o-Terphenyl	*94*		*70 - 130*	*08/10/21 09:07*	*08/10/21 17:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**129**		4.95	0.850	mg/Kg			08/11/21 19:40	1

Client Sample ID: SB-35-45

Date Collected: 08/08/21 16:20
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-44

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		08/10/21 09:18	08/10/21 20:12	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		08/10/21 09:18	08/10/21 20:12	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		08/10/21 09:18	08/10/21 20:12	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:18	08/10/21 20:12	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		08/10/21 09:18	08/10/21 20:12	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:18	08/10/21 20:12	1
Total BTEX	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:18	08/10/21 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*08/10/21 09:18*	*08/10/21 20:12*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*08/10/21 09:18*	*08/10/21 20:12*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 18:07	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-35-45 Lab Sample ID: 890-1074-44

Date Collected: 08/08/21 16:20 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	**30.1**	**J**	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 18:07	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 18:07	1
Total TPH	**30.1**	**J**	49.9	15.0	mg/Kg		08/10/21 09:07	08/10/21 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*08/10/21 09:07*	*08/10/21 18:07*	*1*
o-Terphenyl	*97*		*70 - 130*	*08/10/21 09:07*	*08/10/21 18:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**639**		5.00	0.858	mg/Kg			08/11/21 19:46	1

Client Sample ID: SB-34-2 Lab Sample ID: 890-1074-45

Date Collected: 08/08/21 16:30 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		08/10/21 09:18	08/10/21 20:33	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/10/21 09:18	08/10/21 20:33	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		08/10/21 09:18	08/10/21 20:33	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 09:18	08/10/21 20:33	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		08/10/21 09:18	08/10/21 20:33	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 09:18	08/10/21 20:33	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 09:18	08/10/21 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*08/10/21 09:18*	*08/10/21 20:33*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/10/21 09:18*	*08/10/21 20:33*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 18:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 18:28	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 18:28	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*08/10/21 09:07*	*08/10/21 18:28*	*1*
o-Terphenyl	*94*		*70 - 130*	*08/10/21 09:07*	*08/10/21 18:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.8**		5.02	0.862	mg/Kg			08/11/21 19:51	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-34-6

Date Collected: 08/08/21 16:50
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-46

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		08/10/21 09:18	08/10/21 20:53	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		08/10/21 09:18	08/10/21 20:53	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		08/10/21 09:18	08/10/21 20:53	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:18	08/10/21 20:53	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		08/10/21 09:18	08/10/21 20:53	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:18	08/10/21 20:53	1
Total BTEX	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:18	08/10/21 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*08/10/21 09:18*	*08/10/21 20:53*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/10/21 09:18*	*08/10/21 20:53*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	14.9	mg/Kg		08/10/21 09:07	08/10/21 18:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:07	08/10/21 18:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:07	08/10/21 18:50	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 09:07	08/10/21 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*08/10/21 09:07*	*08/10/21 18:50*	*1*
o-Terphenyl	*95*		*70 - 130*	*08/10/21 09:07*	*08/10/21 18:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**260**		4.98	0.855	mg/Kg			08/11/21 19:57	1

Client Sample ID: SB-34-4

Date Collected: 08/08/21 16:55
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-47

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 09:24	08/11/21 00:15	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/10/21 09:24	08/11/21 00:15	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/10/21 09:24	08/11/21 00:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:24	08/11/21 00:15	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/10/21 09:24	08/11/21 00:15	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:24	08/11/21 00:15	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:24	08/11/21 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*08/10/21 09:24*	*08/11/21 00:15*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/10/21 09:24*	*08/11/21 00:15*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 19:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-34-4 Lab Sample ID: 890-1074-47

Date Collected: 08/08/21 16:55 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 19:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 19:14	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*08/10/21 09:07*	*08/10/21 19:14*	*1*
o-Terphenyl	*90*		*70 - 130*	*08/10/21 09:07*	*08/10/21 19:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.8**		5.00	0.858	mg/Kg			08/11/21 20:03	1

Client Sample ID: SB-34-15 Lab Sample ID: 890-1074-48

Date Collected: 08/08/21 17:05 **Matrix: Solid**
Date Received: 08/09/21 12:05

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 09:24	08/11/21 00:35	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/10/21 09:24	08/11/21 00:35	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 09:24	08/11/21 00:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/11/21 00:35	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/10/21 09:24	08/11/21 00:35	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/11/21 00:35	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/11/21 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*08/10/21 09:24*	*08/11/21 00:35*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/10/21 09:24*	*08/11/21 00:35*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 19:37	1
Diesel Range Organics (Over C10-C28)	**16.2**	**J**	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 19:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 19:37	1
Total TPH	**16.2**	**J**	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*08/10/21 09:07*	*08/10/21 19:37*	*1*
o-Terphenyl	*94*		*70 - 130*	*08/10/21 09:07*	*08/10/21 19:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**166**		4.97	0.853	mg/Kg			08/11/21 20:19	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-34-25

Date Collected: 08/08/21 17:15
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-49

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/10/21 09:24	08/11/21 00:56	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/10/21 09:24	08/11/21 00:56	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/10/21 09:24	08/11/21 00:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:24	08/11/21 00:56	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/10/21 09:24	08/11/21 00:56	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:24	08/11/21 00:56	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:24	08/11/21 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*08/10/21 09:24*	*08/11/21 00:56*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/10/21 09:24*	*08/11/21 00:56*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:23	08/11/21 02:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:23	08/11/21 02:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:23	08/11/21 02:40	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:23	08/11/21 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*08/10/21 14:23*	*08/11/21 02:40*	*1*
o-Terphenyl	*126*		*70 - 130*	*08/10/21 14:23*	*08/11/21 02:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**58.5**		4.99	0.857	mg/Kg			08/11/21 20:25	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
890-1074-1	SB-44-2	113	116										
890-1074-2	SB-44-4	111	80										
890-1074-3	SB-44-8	117	109										
890-1074-4	SB-44-25	139 S1+	112										
890-1074-5	SB-44-30	135 S1+	108										
890-1074-6	SB-15-2	118	112										
890-1074-7	SB-15-4	118	113										
890-1074-8	SB-15-6	129	109										
890-1074-9	SB-15-35	122	116										
890-1074-10	SB-15-40	123	109										
890-1074-11	SB-15-45	126	106										
890-1074-12	SB-16-2	114	106										
890-1074-12 MS	SB-16-2	179 S1+	87										
890-1074-12 MSD	SB-16-2	144 S1+	89										
890-1074-13	SB-16-4	119	109										
890-1074-14	SB-16-10	163 S1+	101										
890-1074-15	SB-16-20	124	105										
890-1074-16	SB-14-2	122	112										
890-1074-17	SB-14-4	85	87										
890-1074-18	SB-14-25	123	112										
890-1074-19	SB-14-30	121	107										
890-1074-20	SB-14-35	121	109										
890-1074-21	SB-43-2	122	113										
890-1074-22	SB-43-4	155 S1+	99										
890-1074-23	SB-43-25	122	110										
890-1074-24	SB-43-35	164 S1+	144 S1+										
890-1074-25	SB-43-40	134 S1+	100										
890-1074-26	SB-43-45	124	104										
890-1074-27	SB-12-2	118	105										
890-1074-28	SB-12-4	125	88										
890-1074-29	SB-12-20	125	103										
890-1074-30	SB-12-40	128	99										
890-1074-31	SB-12-45	556 S1+	6 S1-										
890-1074-32	SB-38-2	112	97										
890-1074-33	SB-38-4	114	101										
890-1074-34	SB-38-20	114	105										
890-1074-35	SB-38-40	111	100										
890-1074-36	SB-38-60	116	102										
890-1074-37	SB-38-65	113	105										
890-1074-38	SB-37-2	88	95										
890-1074-39	SB-37-4	109	99										
890-1074-40	SB-37-30	120	107										
890-1074-41	SB-35-4	107	101										
890-1074-42	SB-35-25	116	100										
890-1074-43	SB-35-40	120	97										
890-1074-44	SB-35-45	127	103										
890-1074-45	SB-34-2	101	96										
890-1074-46	SB-34-6	121	97										
890-1074-47	SB-34-4	106	104										

Surrogate Summary

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (70-130)	DFBZ1 (70-130)
890-1074-47 MS	SB-34-4	115	104
890-1074-48	SB-34-15	119	96
890-1074-49	SB-34-25	114	97
LCS 880-6282/1-A	Lab Control Sample	100	106
LCS 880-6287/1-A	Lab Control Sample	105	106
LCS 880-6288/1-A	Lab Control Sample	112	104
LCS 880-6318/1-A	Lab Control Sample	102	100
LCS 880-6336/1-A	Lab Control Sample	149 S1+	116
LCSD 880-6282/2-A	Lab Control Sample Dup	101	102
LCSD 880-6287/2-A	Lab Control Sample Dup	103	106
LCSD 880-6288/2-A	Lab Control Sample Dup	106	104
LCSD 880-6318/2-A	Lab Control Sample Dup	102	103
LCSD 880-6336/2-A	Lab Control Sample Dup	153 S1+	124
MB 880-6282/5-A	Method Blank	118	105
MB 880-6287/5-A	Method Blank	97	98
MB 880-6288/5-A	Method Blank	135 S1+	97
MB 880-6318/5-A	Method Blank	126	101
MB 880-6336/5-A	Method Blank	99	104

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1	DFBZ1
890-1074-47 MSD	SB-34-4		

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
890-1074-1	SB-44-2	90	93
890-1074-1 MS	SB-44-2	86	82
890-1074-1 MSD	SB-44-2	86	81
890-1074-2	SB-44-4	93	98
890-1074-3	SB-44-8	89	93
890-1074-4	SB-44-25	85	86
890-1074-5	SB-44-30	86	86
890-1074-6	SB-15-2	90	91
890-1074-7	SB-15-4	97	100
890-1074-8	SB-15-6	89	90
890-1074-9	SB-15-35	93	96

Surrogate Summary

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
890-1074-10	SB-15-40	84	87								
890-1074-11	SB-15-45	99	105								
890-1074-12	SB-16-2	90	95								
890-1074-13	SB-16-4	85	86								
890-1074-14	SB-16-10	86	90								
890-1074-15	SB-16-20	90	96								
890-1074-16	SB-14-2	89	94								
890-1074-17	SB-14-4	92	99								
890-1074-18	SB-14-25	82	88								
890-1074-19	SB-14-30	82	84								
890-1074-20	SB-14-35	84	86								
890-1074-21	SB-43-2	123	150 S1+								
890-1074-21 MS	SB-43-2	100	111								
890-1074-21 MSD	SB-43-2	93	104								
890-1074-22	SB-43-4	93	119								
890-1074-23	SB-43-25	98	123								
890-1074-24	SB-43-35	93	114								
890-1074-25	SB-43-40	96	114								
890-1074-26	SB-43-45	83	97								
890-1074-27	SB-12-2	99	118								
890-1074-28	SB-12-4	120	150 S1+								
890-1074-29	SB-12-20	111	146 S1+								
890-1074-30	SB-12-40	128	158 S1+								
890-1074-31	SB-12-45	114	138 S1+								
890-1074-32	SB-38-2	113	148 S1+								
890-1074-33	SB-38-4	99	122								
890-1074-34	SB-38-20	97	123								
890-1074-35	SB-38-40	90	115								
890-1074-36	SB-38-60	89	106								
890-1074-37	SB-38-65	89	111								
890-1074-38	SB-37-2	96	115								
890-1074-39	SB-37-4	98	116								
890-1074-40	SB-37-30	105	128								
890-1074-41	SB-35-4	80	84								
890-1074-42	SB-35-25	85	90								
890-1074-43	SB-35-40	89	94								
890-1074-44	SB-35-45	92	97								
890-1074-45	SB-34-2	89	94								
890-1074-46	SB-34-6	89	95								
890-1074-47	SB-34-4	84	90								
890-1074-48	SB-34-15	89	94								
890-1074-49	SB-34-25	103	126								
LCS 880-6284/2-A	Lab Control Sample	83	79								
LCS 880-6285/2-A	Lab Control Sample	86	83								
LCS 880-6286/2-A	Lab Control Sample	109	118								
LCS 880-6329/2-A	Lab Control Sample	90	98								
LCSD 880-6284/3-A	Lab Control Sample Dup	89	85								
LCSD 880-6285/3-A	Lab Control Sample Dup	85	81								
LCSD 880-6286/3-A	Lab Control Sample Dup	114	119								
LCSD 880-6329/3-A	Lab Control Sample Dup	90	96								

Surrogate Summary

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
MB 880-6284/1-A	Method Blank	96	101								
MB 880-6285/1-A	Method Blank	83	88								
MB 880-6286/1-A	Method Blank	96	123								
MB 880-6329/1-A	Method Blank	94	114								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6282/5-A
Matrix: Solid
Analysis Batch: 6279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 08:51	08/10/21 12:53	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/10/21 08:51	08/10/21 12:53	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 08:51	08/10/21 12:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 08:51	08/10/21 12:53	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/10/21 08:51	08/10/21 12:53	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 08:51	08/10/21 12:53	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 08:51	08/10/21 12:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/10/21 08:51*	*08/10/21 12:53*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/10/21 08:51*	*08/10/21 12:53*	*1*

Lab Sample ID: LCS 880-6282/1-A
Matrix: Solid
Analysis Batch: 6279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6282

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09922		mg/Kg		99	70 - 130		
Toluene			0.100	0.08677		mg/Kg		87	70 - 130		
Ethylbenzene			0.100	0.08938		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene			0.200	0.1850		mg/Kg		92	70 - 130		
o-Xylene			0.100	0.09310		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-6282/2-A
Matrix: Solid
Analysis Batch: 6279

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6282

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1049		mg/Kg		105	70 - 130	6	35
Toluene			0.100	0.09319		mg/Kg		93	70 - 130	7	35
Ethylbenzene			0.100	0.09711		mg/Kg		97	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.2008		mg/Kg		100	70 - 130	8	35
o-Xylene			0.100	0.09965		mg/Kg		100	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 880-6287/5-A
Matrix: Solid
Analysis Batch: 6292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6287

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 09:18	08/10/21 13:01	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-6287/5-A
Matrix: Solid
Analysis Batch: 6292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6287

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 13:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*08/10/21 09:18*	*08/10/21 13:01*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/10/21 09:18*	*08/10/21 13:01*	*1*

Lab Sample ID: LCS 880-6287/1-A
Matrix: Solid
Analysis Batch: 6292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6287

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09319		mg/Kg		93	70 - 130		
Toluene			0.100	0.08895		mg/Kg		89	70 - 130		
Ethylbenzene			0.100	0.08853		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene			0.200	0.1781		mg/Kg		89	70 - 130		
o-Xylene			0.100	0.09060		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-6287/2-A
Matrix: Solid
Analysis Batch: 6292

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6287

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09538		mg/Kg		95	70 - 130	2	35
Toluene			0.100	0.08810		mg/Kg		88	70 - 130	1	35
Ethylbenzene			0.100	0.08732		mg/Kg		87	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1742		mg/Kg		87	70 - 130	2	35
o-Xylene			0.100	0.08815		mg/Kg		88	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 880-6288/5-A
Matrix: Solid
Analysis Batch: 6292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/10/21 09:24	08/10/21 23:54	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-6288/5-A
Matrix: Solid
Analysis Batch: 6292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/10/21 23:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*08/10/21 09:24*	*08/10/21 23:54*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/10/21 09:24*	*08/10/21 23:54*	*1*

Lab Sample ID: LCS 880-6288/1-A
Matrix: Solid
Analysis Batch: 6292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6288

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08756		mg/Kg		88	70 - 130		
Toluene			0.100	0.08601		mg/Kg		86	70 - 130		
Ethylbenzene			0.100	0.08731		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene			0.200	0.1787		mg/Kg		89	70 - 130		
o-Xylene			0.100	0.08985		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-6288/2-A
Matrix: Solid
Analysis Batch: 6292

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6288

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08313		mg/Kg		83	70 - 130	5	35
Toluene			0.100	0.07869		mg/Kg		79	70 - 130	9	35
Ethylbenzene			0.100	0.07898		mg/Kg		79	70 - 130	10	35
m-Xylene & p-Xylene			0.200	0.1600		mg/Kg		80	70 - 130	11	35
o-Xylene			0.100	0.08117		mg/Kg		81	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-1074-47 MSD
Matrix: Solid
Analysis Batch: 6292

Client Sample ID: SB-34-4
Prep Type: Total/NA
Prep Batch: 6288

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.000383	U	0.0990	0.08169		mg/Kg					
Toluene	<0.000453	U	0.0990	0.07902		mg/Kg					
Ethylbenzene	<0.000562	U	0.0990	0.08022		mg/Kg					

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1074-47 MSD
Matrix: Solid
Analysis Batch: 6292

Client Sample ID: SB-34-4
Prep Type: Total/NA
Prep Batch: 6288

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00100	U	0.198	0.1610		mg/Kg					
o-Xylene	<0.000342	U	0.0990	0.08207		mg/Kg					

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 890-1074-47 MS
Matrix: Solid
Analysis Batch: 6292

Client Sample ID: SB-34-4
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 880-6318/5-A
Matrix: Solid
Analysis Batch: 6279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6318

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 11:38	08/11/21 00:29	1
Toluene	0.0007736	J	0.00200	0.000456	mg/Kg		08/10/21 11:38	08/11/21 00:29	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 11:38	08/11/21 00:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 11:38	08/11/21 00:29	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/10/21 11:38	08/11/21 00:29	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 11:38	08/11/21 00:29	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 11:38	08/11/21 00:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*08/10/21 11:38*	*08/11/21 00:29*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*08/10/21 11:38*	*08/11/21 00:29*	*1*

Lab Sample ID: LCS 880-6318/1-A
Matrix: Solid
Analysis Batch: 6279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6318

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08097		mg/Kg		81	70 - 130		
Toluene			0.100	0.07610		mg/Kg		76	70 - 130		
Ethylbenzene			0.100	0.08501		mg/Kg		85	70 - 130		
m-Xylene & p-Xylene			0.200	0.1746		mg/Kg		87	70 - 130		
o-Xylene			0.100	0.08994		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-6318/2-A
Matrix: Solid
Analysis Batch: 6279

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6318

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08816		mg/Kg		88	70 - 130	9	35
Toluene			0.100	0.08107		mg/Kg		81	70 - 130	6	35
Ethylbenzene			0.100	0.08748		mg/Kg		87	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1786		mg/Kg		89	70 - 130	2	35
o-Xylene			0.100	0.09210		mg/Kg		92	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-1074-12 MS
Matrix: Solid
Analysis Batch: 6279

Client Sample ID: SB-16-2
Prep Type: Total/NA
Prep Batch: 6318

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.0998	0.06552	F1	mg/Kg		66	70 - 130
Toluene	<0.00199	U	0.0998	0.08651		mg/Kg		87	70 - 130
Ethylbenzene	<0.00199	U	0.0998	0.09619		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2082		mg/Kg		104	70 - 130
o-Xylene	0.000736	J	0.0998	0.1168		mg/Kg		116	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*179*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: 890-1074-12 MSD
Matrix: Solid
Analysis Batch: 6279

Client Sample ID: SB-16-2
Prep Type: Total/NA
Prep Batch: 6318

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0994	0.05719	F1	mg/Kg		58	70 - 130	14	35
Toluene	<0.00199	U	0.0994	0.06931		mg/Kg		70	70 - 130	22	35
Ethylbenzene	<0.00199	U	0.0994	0.08714		mg/Kg		88	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1943		mg/Kg		98	70 - 130	7	35
o-Xylene	0.000736	J	0.0994	0.1043		mg/Kg		104	70 - 130	11	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*144*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: MB 880-6336/5-A
Matrix: Solid
Analysis Batch: 6356

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/11/21 10:00	08/11/21 17:46	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/11/21 10:00	08/11/21 17:46	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/11/21 10:00	08/11/21 17:46	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-6336/5-A
Matrix: Solid
Analysis Batch: 6356

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/11/21 10:00	08/11/21 17:46	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/11/21 10:00	08/11/21 17:46	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/11/21 10:00	08/11/21 17:46	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/11/21 10:00	08/11/21 17:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/11/21 10:00*	*08/11/21 17:46*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/11/21 10:00*	*08/11/21 17:46*	*1*

Lab Sample ID: LCS 880-6336/1-A
Matrix: Solid
Analysis Batch: 6356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1273		mg/Kg		127	70 - 130
Toluene	0.100	0.1226		mg/Kg		123	70 - 130
Ethylbenzene	0.100	0.1171		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	0.200	0.2312		mg/Kg		116	70 - 130
o-Xylene	0.100	0.1140		mg/Kg		114	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*149*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*

Lab Sample ID: LCSD 880-6336/2-A
Matrix: Solid
Analysis Batch: 6356

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6336

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1226		mg/Kg		123	70 - 130	4	35
Toluene	0.100	0.1158		mg/Kg		116	70 - 130	6	35
Ethylbenzene	0.100	0.1269		mg/Kg		127	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2514		mg/Kg		126	70 - 130	8	35
o-Xylene	0.100	0.1258		mg/Kg		126	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*153*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*124*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-6284/1-A
Matrix: Solid
Analysis Batch: 6276

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6284

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 10:26	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-6284/1-A
Matrix: Solid
Analysis Batch: 6276

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6284

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 10:26	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 10:26	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:07	08/10/21 10:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*08/10/21 09:07*	*08/10/21 10:26*	*1*
o-Terphenyl	*101*		*70 - 130*	*08/10/21 09:07*	*08/10/21 10:26*	*1*

Lab Sample ID: LCS 880-6284/2-A
Matrix: Solid
Analysis Batch: 6276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6284

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	896.8		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	940.1		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*83*		*70 - 130*
o-Terphenyl	*79*		*70 - 130*

Lab Sample ID: LCSD 880-6284/3-A
Matrix: Solid
Analysis Batch: 6276

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6284

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1110	*1	mg/Kg		111	70 - 130	21	20
Diesel Range Organics (Over C10-C28)			1000	1016		mg/Kg		102	70 - 130	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Lab Sample ID: MB 880-6285/1-A
Matrix: Solid
Analysis Batch: 6270

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6285

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 11:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 11:15	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 11:15	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:08	08/10/21 11:15	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-6285/1-A
Matrix: Solid
Analysis Batch: 6270

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6285

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	08/10/21 09:08	08/10/21 11:15	1
o-Terphenyl	88		70 - 130	08/10/21 09:08	08/10/21 11:15	1

Lab Sample ID: LCS 880-6285/2-A
Matrix: Solid
Analysis Batch: 6270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6285

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	912.8		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	871.8		mg/Kg		87	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: LCSD 880-6285/3-A
Matrix: Solid
Analysis Batch: 6270

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6285

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	834.7		mg/Kg		83	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	861.6		mg/Kg		86	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: 890-1074-1 MS
Matrix: Solid
Analysis Batch: 6270

Client Sample ID: SB-44-2
Prep Type: Total/NA
Prep Batch: 6285

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 890-1074-1 MSD
Matrix: Solid
Analysis Batch: 6270

Client Sample ID: SB-44-2
Prep Type: Total/NA
Prep Batch: 6285

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	81		70 - 130

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-6286/1-A
Matrix: Solid
Analysis Batch: 6272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6286

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 11:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 11:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 11:15	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 09:09	08/10/21 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*08/10/21 09:09*	*08/10/21 11:15*	*1*
o-Terphenyl	*123*		*70 - 130*	*08/10/21 09:09*	*08/10/21 11:15*	*1*

Lab Sample ID: LCS 880-6286/2-A
Matrix: Solid
Analysis Batch: 6272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6286

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1002		mg/Kg		100	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1164		mg/Kg		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*118*		*70 - 130*

Lab Sample ID: LCSD 880-6286/3-A
Matrix: Solid
Analysis Batch: 6272

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6286

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1052		mg/Kg		105	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	1194		mg/Kg		119	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*119*		*70 - 130*

Lab Sample ID: 890-1074-21 MS
Matrix: Solid
Analysis Batch: 6272

Client Sample ID: SB-43-2
Prep Type: Total/NA
Prep Batch: 6286

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*111*		*70 - 130*

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1074-21 MSD
Matrix: Solid
Analysis Batch: 6272

Client Sample ID: SB-43-2
Prep Type: Total/NA
Prep Batch: 6286

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: MB 880-6329/1-A
Matrix: Solid
Analysis Batch: 6274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 14:23	08/10/21 20:20	1
Diesel Range Organics (Over C10-C28)	15.58	J	50.0	15.0	mg/Kg		08/10/21 14:23	08/10/21 20:20	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 14:23	08/10/21 20:20	1
Total TPH	15.58	J	50.0	15.0	mg/Kg		08/10/21 14:23	08/10/21 20:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	08/10/21 14:23	08/10/21 20:20	1
o-Terphenyl	114		70 - 130	08/10/21 14:23	08/10/21 20:20	1

Lab Sample ID: LCS 880-6329/2-A
Matrix: Solid
Analysis Batch: 6274

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6329

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	894.6		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1085		mg/Kg		108	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-6329/3-A
Matrix: Solid
Analysis Batch: 6274

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6329

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	995.3		mg/Kg		100	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	1087		mg/Kg		109	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	96		70 - 130

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6316/1-A
Matrix: Solid
Analysis Batch: 6391

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/11/21 10:14	1

Lab Sample ID: LCS 880-6316/2-A
Matrix: Solid
Analysis Batch: 6391

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	250.2		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-6316/3-A
Matrix: Solid
Analysis Batch: 6391

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	250.6		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-1074-11 MS
Matrix: Solid
Analysis Batch: 6391

Client Sample ID: SB-15-45
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	257		248	490.1		mg/Kg		94	90 - 110

Lab Sample ID: 890-1074-11 MSD
Matrix: Solid
Analysis Batch: 6391

Client Sample ID: SB-15-45
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	257		248	489.9		mg/Kg		94	90 - 110	0	20

Lab Sample ID: MB 880-6317/1-A
Matrix: Solid
Analysis Batch: 6392

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/11/21 11:49	1

Lab Sample ID: LCS 880-6317/2-A
Matrix: Solid
Analysis Batch: 6392

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	257.3		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-6317/3-A
Matrix: Solid
Analysis Batch: 6392

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	257.4		mg/Kg		103	90 - 110	0	20

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1074-17 MS
Matrix: Solid
Analysis Batch: 6392

Client Sample ID: SB-14-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1130		248	1343	4	mg/Kg		87	90 - 110

Lab Sample ID: 890-1074-17 MSD
Matrix: Solid
Analysis Batch: 6392

Client Sample ID: SB-14-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1130		248	1341	4	mg/Kg		86	90 - 110	0	20

Lab Sample ID: 890-1074-27 MS
Matrix: Solid
Analysis Batch: 6392

Client Sample ID: SB-12-2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	938	F1	250	1153	F1	mg/Kg		86	90 - 110

Lab Sample ID: 890-1074-27 MSD
Matrix: Solid
Analysis Batch: 6392

Client Sample ID: SB-12-2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	938	F1	250	1151	F1	mg/Kg		85	90 - 110	0	20

Lab Sample ID: MB 880-6319/1-A
Matrix: Solid
Analysis Batch: 6396

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/11/21 18:27	1

Lab Sample ID: LCS 880-6319/2-A
Matrix: Solid
Analysis Batch: 6396

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	259.3		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-6319/3-A
Matrix: Solid
Analysis Batch: 6396

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	259.8		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-1074-37 MS
Matrix: Solid
Analysis Batch: 6396

Client Sample ID: SB-38-65
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	64.5		249	314.8		mg/Kg		101	90 - 110

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1074-37 MSD
Matrix: Solid
Analysis Batch: 6396

Client Sample ID: SB-38-65
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	64.5		249	313.7		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-1074-47 MS
Matrix: Solid
Analysis Batch: 6396

Client Sample ID: SB-34-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	23.8		250	271.8		mg/Kg		99	90 - 110

Lab Sample ID: 890-1074-47 MSD
Matrix: Solid
Analysis Batch: 6396

Client Sample ID: SB-34-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	23.8		250	272.2		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-6320/1-A
Matrix: Solid
Analysis Batch: 6399

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/12/21 00:54	1

Lab Sample ID: LCS 880-6320/2-A
Matrix: Solid
Analysis Batch: 6399

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	267.0		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-6320/3-A
Matrix: Solid
Analysis Batch: 6399

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	267.3		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 890-1074-5 MS
Matrix: Solid
Analysis Batch: 6399

Client Sample ID: SB-44-30
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	96.6		250	351.4		mg/Kg		102	90 - 110

Lab Sample ID: 890-1074-5 MSD
Matrix: Solid
Analysis Batch: 6399

Client Sample ID: SB-44-30
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	96.6		250	351.7		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

GC VOA

Analysis Batch: 6279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-1	SB-44-2	Total/NA	Solid	8021B	6282
890-1074-2	SB-44-4	Total/NA	Solid	8021B	6282
890-1074-3	SB-44-8	Total/NA	Solid	8021B	6282
890-1074-4	SB-44-25	Total/NA	Solid	8021B	6282
890-1074-5	SB-44-30	Total/NA	Solid	8021B	6282
890-1074-6	SB-15-2	Total/NA	Solid	8021B	6282
890-1074-7	SB-15-4	Total/NA	Solid	8021B	6282
890-1074-8	SB-15-6	Total/NA	Solid	8021B	6282
890-1074-9	SB-15-35	Total/NA	Solid	8021B	6282
890-1074-10	SB-15-40	Total/NA	Solid	8021B	6282
890-1074-11	SB-15-45	Total/NA	Solid	8021B	6282
890-1074-12	SB-16-2	Total/NA	Solid	8021B	6318
890-1074-13	SB-16-4	Total/NA	Solid	8021B	6318
890-1074-14	SB-16-10	Total/NA	Solid	8021B	6318
890-1074-15	SB-16-20	Total/NA	Solid	8021B	6318
890-1074-16	SB-14-2	Total/NA	Solid	8021B	6318
890-1074-17	SB-14-4	Total/NA	Solid	8021B	6318
890-1074-18	SB-14-25	Total/NA	Solid	8021B	6318
890-1074-19	SB-14-30	Total/NA	Solid	8021B	6318
890-1074-20	SB-14-35	Total/NA	Solid	8021B	6318
890-1074-21	SB-43-2	Total/NA	Solid	8021B	6318
890-1074-22	SB-43-4	Total/NA	Solid	8021B	6318
890-1074-23	SB-43-25	Total/NA	Solid	8021B	6318
890-1074-25	SB-43-40	Total/NA	Solid	8021B	6318
890-1074-26	SB-43-45	Total/NA	Solid	8021B	6318
890-1074-27	SB-12-2	Total/NA	Solid	8021B	6318
890-1074-28	SB-12-4	Total/NA	Solid	8021B	6318
890-1074-29	SB-12-20	Total/NA	Solid	8021B	6318
890-1074-30	SB-12-40	Total/NA	Solid	8021B	6318
890-1074-31	SB-12-45	Total/NA	Solid	8021B	6318
MB 880-6282/5-A	Method Blank	Total/NA	Solid	8021B	6282
MB 880-6318/5-A	Method Blank	Total/NA	Solid	8021B	6318
LCS 880-6282/1-A	Lab Control Sample	Total/NA	Solid	8021B	6282
LCS 880-6318/1-A	Lab Control Sample	Total/NA	Solid	8021B	6318
LCSD 880-6282/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6282
LCSD 880-6318/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6318
890-1074-12 MS	SB-16-2	Total/NA	Solid	8021B	6318
890-1074-12 MSD	SB-16-2	Total/NA	Solid	8021B	6318

Prep Batch: 6282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-1	SB-44-2	Total/NA	Solid	5035	
890-1074-2	SB-44-4	Total/NA	Solid	5035	
890-1074-3	SB-44-8	Total/NA	Solid	5035	
890-1074-4	SB-44-25	Total/NA	Solid	5035	
890-1074-5	SB-44-30	Total/NA	Solid	5035	
890-1074-6	SB-15-2	Total/NA	Solid	5035	
890-1074-7	SB-15-4	Total/NA	Solid	5035	
890-1074-8	SB-15-6	Total/NA	Solid	5035	
890-1074-9	SB-15-35	Total/NA	Solid	5035	
890-1074-10	SB-15-40	Total/NA	Solid	5035	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

GC VOA (Continued)

Prep Batch: 6282 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-11	SB-15-45	Total/NA	Solid	5035	
MB 880-6282/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6282/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6282/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 6287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-32	SB-38-2	Total/NA	Solid	5035	
890-1074-33	SB-38-4	Total/NA	Solid	5035	
890-1074-34	SB-38-20	Total/NA	Solid	5035	
890-1074-35	SB-38-40	Total/NA	Solid	5035	
890-1074-36	SB-38-60	Total/NA	Solid	5035	
890-1074-37	SB-38-65	Total/NA	Solid	5035	
890-1074-38	SB-37-2	Total/NA	Solid	5035	
890-1074-39	SB-37-4	Total/NA	Solid	5035	
890-1074-40	SB-37-30	Total/NA	Solid	5035	
890-1074-41	SB-35-4	Total/NA	Solid	5035	
890-1074-42	SB-35-25	Total/NA	Solid	5035	
890-1074-43	SB-35-40	Total/NA	Solid	5035	
890-1074-44	SB-35-45	Total/NA	Solid	5035	
890-1074-45	SB-34-2	Total/NA	Solid	5035	
890-1074-46	SB-34-6	Total/NA	Solid	5035	
MB 880-6287/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6287/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6287/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 6288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-47	SB-34-4	Total/NA	Solid	5035	
890-1074-48	SB-34-15	Total/NA	Solid	5035	
890-1074-49	SB-34-25	Total/NA	Solid	5035	
MB 880-6288/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6288/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6288/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1074-47 MSD	SB-34-4	Total/NA	Solid	5035	

Analysis Batch: 6292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-32	SB-38-2	Total/NA	Solid	8021B	6287
890-1074-33	SB-38-4	Total/NA	Solid	8021B	6287
890-1074-34	SB-38-20	Total/NA	Solid	8021B	6287
890-1074-35	SB-38-40	Total/NA	Solid	8021B	6287
890-1074-36	SB-38-60	Total/NA	Solid	8021B	6287
890-1074-37	SB-38-65	Total/NA	Solid	8021B	6287
890-1074-38	SB-37-2	Total/NA	Solid	8021B	6287
890-1074-39	SB-37-4	Total/NA	Solid	8021B	6287
890-1074-40	SB-37-30	Total/NA	Solid	8021B	6287
890-1074-41	SB-35-4	Total/NA	Solid	8021B	6287
890-1074-42	SB-35-25	Total/NA	Solid	8021B	6287
890-1074-43	SB-35-40	Total/NA	Solid	8021B	6287
890-1074-44	SB-35-45	Total/NA	Solid	8021B	6287

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

GC VOA (Continued)

Analysis Batch: 6292 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-45	SB-34-2	Total/NA	Solid	8021B	6287
890-1074-46	SB-34-6	Total/NA	Solid	8021B	6287
890-1074-47	SB-34-4	Total/NA	Solid	8021B	6288
890-1074-48	SB-34-15	Total/NA	Solid	8021B	6288
890-1074-49	SB-34-25	Total/NA	Solid	8021B	6288
MB 880-6287/5-A	Method Blank	Total/NA	Solid	8021B	6287
MB 880-6288/5-A	Method Blank	Total/NA	Solid	8021B	6288
LCS 880-6287/1-A	Lab Control Sample	Total/NA	Solid	8021B	6287
LCS 880-6288/1-A	Lab Control Sample	Total/NA	Solid	8021B	6288
LCSD 880-6287/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6287
LCSD 880-6288/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6288
890-1074-47 MS	SB-34-4	Total/NA	Solid	8021B	
890-1074-47 MSD	SB-34-4	Total/NA	Solid	8021B	6288

Prep Batch: 6318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-12	SB-16-2	Total/NA	Solid	5035	
890-1074-13	SB-16-4	Total/NA	Solid	5035	
890-1074-14	SB-16-10	Total/NA	Solid	5035	
890-1074-15	SB-16-20	Total/NA	Solid	5035	
890-1074-16	SB-14-2	Total/NA	Solid	5035	
890-1074-17	SB-14-4	Total/NA	Solid	5035	
890-1074-18	SB-14-25	Total/NA	Solid	5035	
890-1074-19	SB-14-30	Total/NA	Solid	5035	
890-1074-20	SB-14-35	Total/NA	Solid	5035	
890-1074-21	SB-43-2	Total/NA	Solid	5035	
890-1074-22	SB-43-4	Total/NA	Solid	5035	
890-1074-23	SB-43-25	Total/NA	Solid	5035	
890-1074-25	SB-43-40	Total/NA	Solid	5035	
890-1074-26	SB-43-45	Total/NA	Solid	5035	
890-1074-27	SB-12-2	Total/NA	Solid	5035	
890-1074-28	SB-12-4	Total/NA	Solid	5035	
890-1074-29	SB-12-20	Total/NA	Solid	5035	
890-1074-30	SB-12-40	Total/NA	Solid	5035	
890-1074-31	SB-12-45	Total/NA	Solid	5035	
MB 880-6318/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6318/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6318/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1074-12 MS	SB-16-2	Total/NA	Solid	5035	
890-1074-12 MSD	SB-16-2	Total/NA	Solid	5035	

Prep Batch: 6336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-24	SB-43-35	Total/NA	Solid	5035	
MB 880-6336/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6336/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6336/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 6356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-24	SB-43-35	Total/NA	Solid	8021B	6336

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

GC VOA (Continued)

Analysis Batch: 6356 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6336/5-A	Method Blank	Total/NA	Solid	8021B	6336
LCS 880-6336/1-A	Lab Control Sample	Total/NA	Solid	8021B	6336
LCSD 880-6336/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6336

GC Semi VOA

Analysis Batch: 6270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-1	SB-44-2	Total/NA	Solid	8015B NM	6285
890-1074-2	SB-44-4	Total/NA	Solid	8015B NM	6285
890-1074-3	SB-44-8	Total/NA	Solid	8015B NM	6285
890-1074-4	SB-44-25	Total/NA	Solid	8015B NM	6285
890-1074-5	SB-44-30	Total/NA	Solid	8015B NM	6285
890-1074-6	SB-15-2	Total/NA	Solid	8015B NM	6285
890-1074-7	SB-15-4	Total/NA	Solid	8015B NM	6285
890-1074-8	SB-15-6	Total/NA	Solid	8015B NM	6285
890-1074-9	SB-15-35	Total/NA	Solid	8015B NM	6285
890-1074-10	SB-15-40	Total/NA	Solid	8015B NM	6285
890-1074-11	SB-15-45	Total/NA	Solid	8015B NM	6285
890-1074-12	SB-16-2	Total/NA	Solid	8015B NM	6285
890-1074-13	SB-16-4	Total/NA	Solid	8015B NM	6285
890-1074-14	SB-16-10	Total/NA	Solid	8015B NM	6285
890-1074-15	SB-16-20	Total/NA	Solid	8015B NM	6285
890-1074-16	SB-14-2	Total/NA	Solid	8015B NM	6285
890-1074-17	SB-14-4	Total/NA	Solid	8015B NM	6285
890-1074-18	SB-14-25	Total/NA	Solid	8015B NM	6285
890-1074-19	SB-14-30	Total/NA	Solid	8015B NM	6285
890-1074-20	SB-14-35	Total/NA	Solid	8015B NM	6285
MB 880-6285/1-A	Method Blank	Total/NA	Solid	8015B NM	6285
LCS 880-6285/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6285
LCSD 880-6285/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6285
890-1074-1 MS	SB-44-2	Total/NA	Solid	8015B NM	6285
890-1074-1 MSD	SB-44-2	Total/NA	Solid	8015B NM	6285

Analysis Batch: 6272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-21	SB-43-2	Total/NA	Solid	8015B NM	6286
890-1074-22	SB-43-4	Total/NA	Solid	8015B NM	6286
890-1074-23	SB-43-25	Total/NA	Solid	8015B NM	6286
890-1074-24	SB-43-35	Total/NA	Solid	8015B NM	6286
890-1074-25	SB-43-40	Total/NA	Solid	8015B NM	6286
890-1074-26	SB-43-45	Total/NA	Solid	8015B NM	6286
890-1074-27	SB-12-2	Total/NA	Solid	8015B NM	6286
890-1074-28	SB-12-4	Total/NA	Solid	8015B NM	6286
890-1074-29	SB-12-20	Total/NA	Solid	8015B NM	6286
890-1074-30	SB-12-40	Total/NA	Solid	8015B NM	6286
890-1074-31	SB-12-45	Total/NA	Solid	8015B NM	6286
890-1074-32	SB-38-2	Total/NA	Solid	8015B NM	6286
890-1074-33	SB-38-4	Total/NA	Solid	8015B NM	6286
890-1074-34	SB-38-20	Total/NA	Solid	8015B NM	6286
890-1074-35	SB-38-40	Total/NA	Solid	8015B NM	6286

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

GC Semi VOA (Continued)

Analysis Batch: 6272 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-36	SB-38-60	Total/NA	Solid	8015B NM	6286
890-1074-37	SB-38-65	Total/NA	Solid	8015B NM	6286
890-1074-38	SB-37-2	Total/NA	Solid	8015B NM	6286
890-1074-39	SB-37-4	Total/NA	Solid	8015B NM	6286
890-1074-40	SB-37-30	Total/NA	Solid	8015B NM	6286
MB 880-6286/1-A	Method Blank	Total/NA	Solid	8015B NM	6286
LCS 880-6286/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6286
LCSD 880-6286/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6286
890-1074-21 MS	SB-43-2	Total/NA	Solid	8015B NM	6286
890-1074-21 MSD	SB-43-2	Total/NA	Solid	8015B NM	6286

Analysis Batch: 6274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-49	SB-34-25	Total/NA	Solid	8015B NM	6329
MB 880-6329/1-A	Method Blank	Total/NA	Solid	8015B NM	6329
LCS 880-6329/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6329
LCSD 880-6329/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6329

Analysis Batch: 6276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-41	SB-35-4	Total/NA	Solid	8015B NM	6284
890-1074-42	SB-35-25	Total/NA	Solid	8015B NM	6284
890-1074-43	SB-35-40	Total/NA	Solid	8015B NM	6284
890-1074-44	SB-35-45	Total/NA	Solid	8015B NM	6284
890-1074-45	SB-34-2	Total/NA	Solid	8015B NM	6284
890-1074-46	SB-34-6	Total/NA	Solid	8015B NM	6284
890-1074-47	SB-34-4	Total/NA	Solid	8015B NM	6284
890-1074-48	SB-34-15	Total/NA	Solid	8015B NM	6284
MB 880-6284/1-A	Method Blank	Total/NA	Solid	8015B NM	6284
LCS 880-6284/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6284
LCSD 880-6284/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6284

Prep Batch: 6284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-41	SB-35-4	Total/NA	Solid	8015NM Prep	
890-1074-42	SB-35-25	Total/NA	Solid	8015NM Prep	
890-1074-43	SB-35-40	Total/NA	Solid	8015NM Prep	
890-1074-44	SB-35-45	Total/NA	Solid	8015NM Prep	
890-1074-45	SB-34-2	Total/NA	Solid	8015NM Prep	
890-1074-46	SB-34-6	Total/NA	Solid	8015NM Prep	
890-1074-47	SB-34-4	Total/NA	Solid	8015NM Prep	
890-1074-48	SB-34-15	Total/NA	Solid	8015NM Prep	
MB 880-6284/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6284/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6284/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 6285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-1	SB-44-2	Total/NA	Solid	8015NM Prep	
890-1074-2	SB-44-4	Total/NA	Solid	8015NM Prep	
890-1074-3	SB-44-8	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

GC Semi VOA (Continued)

Prep Batch: 6285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-4	SB-44-25	Total/NA	Solid	8015NM Prep	
890-1074-5	SB-44-30	Total/NA	Solid	8015NM Prep	
890-1074-6	SB-15-2	Total/NA	Solid	8015NM Prep	
890-1074-7	SB-15-4	Total/NA	Solid	8015NM Prep	
890-1074-8	SB-15-6	Total/NA	Solid	8015NM Prep	
890-1074-9	SB-15-35	Total/NA	Solid	8015NM Prep	
890-1074-10	SB-15-40	Total/NA	Solid	8015NM Prep	
890-1074-11	SB-15-45	Total/NA	Solid	8015NM Prep	
890-1074-12	SB-16-2	Total/NA	Solid	8015NM Prep	
890-1074-13	SB-16-4	Total/NA	Solid	8015NM Prep	
890-1074-14	SB-16-10	Total/NA	Solid	8015NM Prep	
890-1074-15	SB-16-20	Total/NA	Solid	8015NM Prep	
890-1074-16	SB-14-2	Total/NA	Solid	8015NM Prep	
890-1074-17	SB-14-4	Total/NA	Solid	8015NM Prep	
890-1074-18	SB-14-25	Total/NA	Solid	8015NM Prep	
890-1074-19	SB-14-30	Total/NA	Solid	8015NM Prep	
890-1074-20	SB-14-35	Total/NA	Solid	8015NM Prep	
MB 880-6285/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6285/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6285/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1074-1 MS	SB-44-2	Total/NA	Solid	8015NM Prep	
890-1074-1 MSD	SB-44-2	Total/NA	Solid	8015NM Prep	

Prep Batch: 6286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-21	SB-43-2	Total/NA	Solid	8015NM Prep	
890-1074-22	SB-43-4	Total/NA	Solid	8015NM Prep	
890-1074-23	SB-43-25	Total/NA	Solid	8015NM Prep	
890-1074-24	SB-43-35	Total/NA	Solid	8015NM Prep	
890-1074-25	SB-43-40	Total/NA	Solid	8015NM Prep	
890-1074-26	SB-43-45	Total/NA	Solid	8015NM Prep	
890-1074-27	SB-12-2	Total/NA	Solid	8015NM Prep	
890-1074-28	SB-12-4	Total/NA	Solid	8015NM Prep	
890-1074-29	SB-12-20	Total/NA	Solid	8015NM Prep	
890-1074-30	SB-12-40	Total/NA	Solid	8015NM Prep	
890-1074-31	SB-12-45	Total/NA	Solid	8015NM Prep	
890-1074-32	SB-38-2	Total/NA	Solid	8015NM Prep	
890-1074-33	SB-38-4	Total/NA	Solid	8015NM Prep	
890-1074-34	SB-38-20	Total/NA	Solid	8015NM Prep	
890-1074-35	SB-38-40	Total/NA	Solid	8015NM Prep	
890-1074-36	SB-38-60	Total/NA	Solid	8015NM Prep	
890-1074-37	SB-38-65	Total/NA	Solid	8015NM Prep	
890-1074-38	SB-37-2	Total/NA	Solid	8015NM Prep	
890-1074-39	SB-37-4	Total/NA	Solid	8015NM Prep	
890-1074-40	SB-37-30	Total/NA	Solid	8015NM Prep	
MB 880-6286/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6286/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6286/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1074-21 MS	SB-43-2	Total/NA	Solid	8015NM Prep	
890-1074-21 MSD	SB-43-2	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

GC Semi VOA

Prep Batch: 6329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-49	SB-34-25	Total/NA	Solid	8015NM Prep	
MB 880-6329/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6329/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6329/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 6316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-11	SB-15-45	Soluble	Solid	DI Leach	
890-1074-12	SB-16-2	Soluble	Solid	DI Leach	
890-1074-13	SB-16-4	Soluble	Solid	DI Leach	
890-1074-14	SB-16-10	Soluble	Solid	DI Leach	
890-1074-15	SB-16-20	Soluble	Solid	DI Leach	
890-1074-16	SB-14-2	Soluble	Solid	DI Leach	
MB 880-6316/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6316/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6316/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1074-11 MS	SB-15-45	Soluble	Solid	DI Leach	
890-1074-11 MSD	SB-15-45	Soluble	Solid	DI Leach	

Leach Batch: 6317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-17	SB-14-4	Soluble	Solid	DI Leach	
890-1074-18	SB-14-25	Soluble	Solid	DI Leach	
890-1074-19	SB-14-30	Soluble	Solid	DI Leach	
890-1074-20	SB-14-35	Soluble	Solid	DI Leach	
890-1074-21	SB-43-2	Soluble	Solid	DI Leach	
890-1074-22	SB-43-4	Soluble	Solid	DI Leach	
890-1074-23	SB-43-25	Soluble	Solid	DI Leach	
890-1074-24	SB-43-35	Soluble	Solid	DI Leach	
890-1074-25	SB-43-40	Soluble	Solid	DI Leach	
890-1074-26	SB-43-45	Soluble	Solid	DI Leach	
890-1074-27	SB-12-2	Soluble	Solid	DI Leach	
890-1074-28	SB-12-4	Soluble	Solid	DI Leach	
890-1074-29	SB-12-20	Soluble	Solid	DI Leach	
890-1074-30	SB-12-40	Soluble	Solid	DI Leach	
890-1074-31	SB-12-45	Soluble	Solid	DI Leach	
890-1074-32	SB-38-2	Soluble	Solid	DI Leach	
890-1074-33	SB-38-4	Soluble	Solid	DI Leach	
890-1074-34	SB-38-20	Soluble	Solid	DI Leach	
890-1074-35	SB-38-40	Soluble	Solid	DI Leach	
890-1074-36	SB-38-60	Soluble	Solid	DI Leach	
MB 880-6317/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6317/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6317/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1074-17 MS	SB-14-4	Soluble	Solid	DI Leach	
890-1074-17 MSD	SB-14-4	Soluble	Solid	DI Leach	
890-1074-27 MS	SB-12-2	Soluble	Solid	DI Leach	
890-1074-27 MSD	SB-12-2	Soluble	Solid	DI Leach	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

HPLC/IC

Leach Batch: 6319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-37	SB-38-65	Soluble	Solid	DI Leach	
890-1074-38	SB-37-2	Soluble	Solid	DI Leach	
890-1074-39	SB-37-4	Soluble	Solid	DI Leach	
890-1074-40	SB-37-30	Soluble	Solid	DI Leach	
890-1074-41	SB-35-4	Soluble	Solid	DI Leach	
890-1074-42	SB-35-25	Soluble	Solid	DI Leach	
890-1074-43	SB-35-40	Soluble	Solid	DI Leach	
890-1074-44	SB-35-45	Soluble	Solid	DI Leach	
890-1074-45	SB-34-2	Soluble	Solid	DI Leach	
890-1074-46	SB-34-6	Soluble	Solid	DI Leach	
890-1074-47	SB-34-4	Soluble	Solid	DI Leach	
890-1074-48	SB-34-15	Soluble	Solid	DI Leach	
890-1074-49	SB-34-25	Soluble	Solid	DI Leach	
MB 880-6319/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6319/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6319/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1074-37 MS	SB-38-65	Soluble	Solid	DI Leach	
890-1074-37 MSD	SB-38-65	Soluble	Solid	DI Leach	
890-1074-47 MS	SB-34-4	Soluble	Solid	DI Leach	
890-1074-47 MSD	SB-34-4	Soluble	Solid	DI Leach	

Leach Batch: 6320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-1	SB-44-2	Soluble	Solid	DI Leach	
890-1074-2	SB-44-4	Soluble	Solid	DI Leach	
890-1074-3	SB-44-8	Soluble	Solid	DI Leach	
890-1074-4	SB-44-25	Soluble	Solid	DI Leach	
890-1074-5	SB-44-30	Soluble	Solid	DI Leach	
890-1074-6	SB-15-2	Soluble	Solid	DI Leach	
890-1074-7	SB-15-4	Soluble	Solid	DI Leach	
890-1074-8	SB-15-6	Soluble	Solid	DI Leach	
890-1074-9	SB-15-35	Soluble	Solid	DI Leach	
890-1074-10	SB-15-40	Soluble	Solid	DI Leach	
MB 880-6320/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6320/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6320/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1074-5 MS	SB-44-30	Soluble	Solid	DI Leach	
890-1074-5 MSD	SB-44-30	Soluble	Solid	DI Leach	

Analysis Batch: 6391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-11	SB-15-45	Soluble	Solid	300.0	6316
890-1074-12	SB-16-2	Soluble	Solid	300.0	6316
890-1074-13	SB-16-4	Soluble	Solid	300.0	6316
890-1074-14	SB-16-10	Soluble	Solid	300.0	6316
890-1074-15	SB-16-20	Soluble	Solid	300.0	6316
890-1074-16	SB-14-2	Soluble	Solid	300.0	6316
MB 880-6316/1-A	Method Blank	Soluble	Solid	300.0	6316
LCS 880-6316/2-A	Lab Control Sample	Soluble	Solid	300.0	6316
LCSD 880-6316/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6316
890-1074-11 MS	SB-15-45	Soluble	Solid	300.0	6316

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

HPLC/IC (Continued)

Analysis Batch: 6391 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-11 MSD	SB-15-45	Soluble	Solid	300.0	6316

Analysis Batch: 6392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-17	SB-14-4	Soluble	Solid	300.0	6317
890-1074-18	SB-14-25	Soluble	Solid	300.0	6317
890-1074-19	SB-14-30	Soluble	Solid	300.0	6317
890-1074-20	SB-14-35	Soluble	Solid	300.0	6317
890-1074-21	SB-43-2	Soluble	Solid	300.0	6317
890-1074-22	SB-43-4	Soluble	Solid	300.0	6317
890-1074-23	SB-43-25	Soluble	Solid	300.0	6317
890-1074-24	SB-43-35	Soluble	Solid	300.0	6317
890-1074-25	SB-43-40	Soluble	Solid	300.0	6317
890-1074-26	SB-43-45	Soluble	Solid	300.0	6317
890-1074-27	SB-12-2	Soluble	Solid	300.0	6317
890-1074-28	SB-12-4	Soluble	Solid	300.0	6317
890-1074-29	SB-12-20	Soluble	Solid	300.0	6317
890-1074-30	SB-12-40	Soluble	Solid	300.0	6317
890-1074-31	SB-12-45	Soluble	Solid	300.0	6317
890-1074-32	SB-38-2	Soluble	Solid	300.0	6317
890-1074-33	SB-38-4	Soluble	Solid	300.0	6317
890-1074-34	SB-38-20	Soluble	Solid	300.0	6317
890-1074-35	SB-38-40	Soluble	Solid	300.0	6317
890-1074-36	SB-38-60	Soluble	Solid	300.0	6317
MB 880-6317/1-A	Method Blank	Soluble	Solid	300.0	6317
LCS 880-6317/2-A	Lab Control Sample	Soluble	Solid	300.0	6317
LCSD 880-6317/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6317
890-1074-17 MS	SB-14-4	Soluble	Solid	300.0	6317
890-1074-17 MSD	SB-14-4	Soluble	Solid	300.0	6317
890-1074-27 MS	SB-12-2	Soluble	Solid	300.0	6317
890-1074-27 MSD	SB-12-2	Soluble	Solid	300.0	6317

Analysis Batch: 6396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-37	SB-38-65	Soluble	Solid	300.0	6319
890-1074-38	SB-37-2	Soluble	Solid	300.0	6319
890-1074-39	SB-37-4	Soluble	Solid	300.0	6319
890-1074-40	SB-37-30	Soluble	Solid	300.0	6319
890-1074-41	SB-35-4	Soluble	Solid	300.0	6319
890-1074-42	SB-35-25	Soluble	Solid	300.0	6319
890-1074-43	SB-35-40	Soluble	Solid	300.0	6319
890-1074-44	SB-35-45	Soluble	Solid	300.0	6319
890-1074-45	SB-34-2	Soluble	Solid	300.0	6319
890-1074-46	SB-34-6	Soluble	Solid	300.0	6319
890-1074-47	SB-34-4	Soluble	Solid	300.0	6319
890-1074-48	SB-34-15	Soluble	Solid	300.0	6319
890-1074-49	SB-34-25	Soluble	Solid	300.0	6319
MB 880-6319/1-A	Method Blank	Soluble	Solid	300.0	6319
LCS 880-6319/2-A	Lab Control Sample	Soluble	Solid	300.0	6319
LCSD 880-6319/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6319
890-1074-37 MS	SB-38-65	Soluble	Solid	300.0	6319

QC Association Summary

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

HPLC/IC (Continued)

Analysis Batch: 6396 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-37 MSD	SB-38-65	Soluble	Solid	300.0	6319
890-1074-47 MS	SB-34-4	Soluble	Solid	300.0	6319
890-1074-47 MSD	SB-34-4	Soluble	Solid	300.0	6319

Analysis Batch: 6399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1074-1	SB-44-2	Soluble	Solid	300.0	6320
890-1074-2	SB-44-4	Soluble	Solid	300.0	6320
890-1074-3	SB-44-8	Soluble	Solid	300.0	6320
890-1074-4	SB-44-25	Soluble	Solid	300.0	6320
890-1074-5	SB-44-30	Soluble	Solid	300.0	6320
890-1074-6	SB-15-2	Soluble	Solid	300.0	6320
890-1074-7	SB-15-4	Soluble	Solid	300.0	6320
890-1074-8	SB-15-6	Soluble	Solid	300.0	6320
890-1074-9	SB-15-35	Soluble	Solid	300.0	6320
890-1074-10	SB-15-40	Soluble	Solid	300.0	6320
MB 880-6320/1-A	Method Blank	Soluble	Solid	300.0	6320
LCS 880-6320/2-A	Lab Control Sample	Soluble	Solid	300.0	6320
LCSD 880-6320/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6320
890-1074-5 MS	SB-44-30	Soluble	Solid	300.0	6320
890-1074-5 MSD	SB-44-30	Soluble	Solid	300.0	6320

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-44-2

Date Collected: 08/06/21 09:00
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 16:26	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 12:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			6399	08/12/21 02:07	CH	XEN MID

Client Sample ID: SB-44-4

Date Collected: 08/06/21 09:05
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 18:17	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 13:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			6399	08/12/21 02:13	CH	XEN MID

Client Sample ID: SB-44-8

Date Collected: 08/06/21 09:15
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 18:37	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 13:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			6399	08/12/21 02:18	CH	XEN MID

Client Sample ID: SB-44-25

Date Collected: 08/06/21 09:40
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 18:57	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 14:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			6399	08/12/21 02:24	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-44-30
Date Collected: 08/06/21 09:45
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 19:18	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 14:27	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			6399	08/12/21 02:30	CH	XEN MID

Client Sample ID: SB-15-2
Date Collected: 08/06/21 09:55
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 19:38	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 14:49	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			6399	08/12/21 02:46	CH	XEN MID

Client Sample ID: SB-15-4
Date Collected: 08/06/21 10:00
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 19:59	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 15:11	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			6399	08/12/21 02:52	CH	XEN MID

Client Sample ID: SB-15-6
Date Collected: 08/06/21 10:20
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 20:19	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 15:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		10			6399	08/12/21 03:09	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-15-35 Lab Sample ID: 890-1074-9

Date Collected: 08/06/21 11:20 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 20:39	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 15:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			6399	08/12/21 03:14	CH	XEN MID

Client Sample ID: SB-15-40 Lab Sample ID: 890-1074-10

Date Collected: 08/06/21 11:30 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 21:00	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 16:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			6399	08/12/21 03:20	CH	XEN MID

Client Sample ID: SB-15-45 Lab Sample ID: 890-1074-11

Date Collected: 08/06/21 11:50 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6282	08/10/21 08:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/10/21 21:20	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 17:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6316	08/10/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			6391	08/11/21 10:30	CH	XEN MID

Client Sample ID: SB-16-2 Lab Sample ID: 890-1074-12

Date Collected: 08/06/21 12:05 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 00:58	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 17:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6316	08/10/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			6391	08/11/21 10:47	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-16-4 Lab Sample ID: 890-1074-13

Date Collected: 08/06/21 12:10 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 01:19	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 17:44	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6316	08/10/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			6391	08/11/21 10:53	CH	XEN MID

Client Sample ID: SB-16-10 Lab Sample ID: 890-1074-14

Date Collected: 08/06/21 13:45 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 01:39	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 18:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6316	08/10/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			6391	08/11/21 10:58	CH	XEN MID

Client Sample ID: SB-16-20 Lab Sample ID: 890-1074-15

Date Collected: 08/06/21 14:00 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 01:59	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 18:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6316	08/10/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			6391	08/11/21 11:04	CH	XEN MID

Client Sample ID: SB-14-2 Lab Sample ID: 890-1074-16

Date Collected: 08/06/21 14:05 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 02:20	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 18:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6316	08/10/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			6391	08/11/21 11:21	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-14-4 Lab Sample ID: 890-1074-17

Date Collected: 08/06/21 14:20 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 02:40	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 19:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 12:05	CH	XEN MID

Client Sample ID: SB-14-25 Lab Sample ID: 890-1074-18

Date Collected: 08/06/21 14:50 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 03:01	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 19:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		5			6392	08/11/21 12:22	CH	XEN MID

Client Sample ID: SB-14-30 Lab Sample ID: 890-1074-19

Date Collected: 08/06/21 14:55 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 03:21	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 19:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 12:27	CH	XEN MID

Client Sample ID: SB-14-35 Lab Sample ID: 890-1074-20

Date Collected: 08/06/21 15:00 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 03:41	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6285	08/10/21 09:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6270	08/10/21 20:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 12:33	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-43-2 Lab Sample ID: 890-1074-21

Date Collected: 08/06/21 15:15 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 04:02	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 12:18	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		10			6392	08/11/21 12:38	CH	XEN MID

Client Sample ID: SB-43-4 Lab Sample ID: 890-1074-22

Date Collected: 08/06/21 15:20 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 05:51	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 13:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		10			6392	08/11/21 12:55	CH	XEN MID

Client Sample ID: SB-43-25 Lab Sample ID: 890-1074-23

Date Collected: 08/06/21 15:50 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 06:12	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 13:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		5			6392	08/12/21 11:02	CH	XEN MID

Client Sample ID: SB-43-35 Lab Sample ID: 890-1074-24

Date Collected: 08/07/21 09:20 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6336	08/11/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6356	08/11/21 22:02	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 14:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		5			6392	08/11/21 13:05	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-43-40

Lab Sample ID: 890-1074-25
Matrix: Solid
Date Collected: 08/07/21 09:30
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 06:52	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 14:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 13:11	CH	XEN MID

Client Sample ID: SB-43-45

Lab Sample ID: 890-1074-26
Matrix: Solid
Date Collected: 08/07/21 10:30
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 07:13	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 14:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 13:16	CH	XEN MID

Client Sample ID: SB-12-2

Lab Sample ID: 890-1074-27
Matrix: Solid
Date Collected: 08/07/21 10:40
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 07:33	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 15:11	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 13:22	CH	XEN MID

Client Sample ID: SB-12-4

Lab Sample ID: 890-1074-28
Matrix: Solid
Date Collected: 08/07/21 10:45
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 07:54	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 15:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		10			6392	08/11/21 13:38	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-12-20 Lab Sample ID: 890-1074-29

Date Collected: 08/07/21 11:20 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 08:14	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 15:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		5			6392	08/11/21 13:44	CH	XEN MID

Client Sample ID: SB-12-40 Lab Sample ID: 890-1074-30

Date Collected: 08/07/21 12:00 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 08:58	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 16:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 14:00	CH	XEN MID

Client Sample ID: SB-12-45 Lab Sample ID: 890-1074-31

Date Collected: 08/07/21 12:00 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6318	08/10/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6279	08/11/21 09:19	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 17:01	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 14:06	CH	XEN MID

Client Sample ID: SB-38-2 Lab Sample ID: 890-1074-32

Date Collected: 08/07/21 13:15 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 15:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 17:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 14:11	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-38-4 Lab Sample ID: 890-1074-33

Date Collected: 08/07/21 13:20 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 15:26	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 17:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 14:17	CH	XEN MID

Client Sample ID: SB-38-20 Lab Sample ID: 890-1074-34

Date Collected: 08/07/21 14:05 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 15:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 18:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		5			6392	08/11/21 14:22	CH	XEN MID

Client Sample ID: SB-38-40 Lab Sample ID: 890-1074-35

Date Collected: 08/07/21 14:25 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 16:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 18:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 14:28	CH	XEN MID

Client Sample ID: SB-38-60 Lab Sample ID: 890-1074-36

Date Collected: 08/07/21 15:30 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 16:27	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 18:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6317	08/10/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1			6392	08/11/21 14:33	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-38-65

Lab Sample ID: 890-1074-37
Matrix: Solid
Date Collected: 08/07/21 15:50
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 17:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 19:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 18:44	CH	XEN MID

Client Sample ID: SB-37-2

Lab Sample ID: 890-1074-38
Matrix: Solid
Date Collected: 08/07/21 16:10
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 18:10	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 19:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 19:01	CH	XEN MID

Client Sample ID: SB-37-4

Lab Sample ID: 890-1074-39
Matrix: Solid
Date Collected: 08/07/21 16:25
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 18:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 19:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 19:07	CH	XEN MID

Client Sample ID: SB-37-30

Lab Sample ID: 890-1074-40
Matrix: Solid
Date Collected: 08/07/21 17:10
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 18:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6286	08/10/21 09:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6272	08/10/21 20:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 19:12	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-35-4
Date Collected: 08/08/21 12:25
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 19:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6284	08/10/21 09:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 17:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 19:18	CH	XEN MID

Client Sample ID: SB-35-25
Date Collected: 08/08/21 13:40
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 19:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6284	08/10/21 09:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 17:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 19:35	CH	XEN MID

Client Sample ID: SB-35-40
Date Collected: 08/08/21 16:05
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 19:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6284	08/10/21 09:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 17:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 19:40	CH	XEN MID

Client Sample ID: SB-35-45
Date Collected: 08/08/21 16:20
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 20:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6284	08/10/21 09:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 18:07	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 19:46	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Client Sample ID: SB-34-2
Date Collected: 08/08/21 16:30
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-45
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 20:33	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6284	08/10/21 09:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 18:28	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 19:51	CH	XEN MID

Client Sample ID: SB-34-6
Date Collected: 08/08/21 16:50
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-46
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	6287	08/10/21 09:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/10/21 20:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6284	08/10/21 09:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 18:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 19:57	CH	XEN MID

Client Sample ID: SB-34-4
Date Collected: 08/08/21 16:55
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 00:15	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6284	08/10/21 09:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 19:14	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 20:03	CH	XEN MID

Client Sample ID: SB-34-15
Date Collected: 08/08/21 17:05
Date Received: 08/09/21 12:05

Lab Sample ID: 890-1074-48
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 00:35	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6284	08/10/21 09:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 19:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 20:19	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-34-25 Lab Sample ID: 890-1074-49

Date Collected: 08/08/21 17:15 **Matrix: Solid**
Date Received: 08/09/21 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 00:56	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6329	08/10/21 14:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6274	08/11/21 02:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 20:25	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: GHD Services Inc. Job ID: 890-1074-1
Project/Site: Flamenco #1 SDG: 11220747

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1074-1
SDG: 11220747

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1074-1	SB-44-2	Solid	08/06/21 09:00	08/09/21 12:05
890-1074-2	SB-44-4	Solid	08/06/21 09:05	08/09/21 12:05
890-1074-3	SB-44-8	Solid	08/06/21 09:15	08/09/21 12:05
890-1074-4	SB-44-25	Solid	08/06/21 09:40	08/09/21 12:05
890-1074-5	SB-44-30	Solid	08/06/21 09:45	08/09/21 12:05
890-1074-6	SB-15-2	Solid	08/06/21 09:55	08/09/21 12:05
890-1074-7	SB-15-4	Solid	08/06/21 10:00	08/09/21 12:05
890-1074-8	SB-15-6	Solid	08/06/21 10:20	08/09/21 12:05
890-1074-9	SB-15-35	Solid	08/06/21 11:20	08/09/21 12:05
890-1074-10	SB-15-40	Solid	08/06/21 11:30	08/09/21 12:05
890-1074-11	SB-15-45	Solid	08/06/21 11:50	08/09/21 12:05
890-1074-12	SB-16-2	Solid	08/06/21 12:05	08/09/21 12:05
890-1074-13	SB-16-4	Solid	08/06/21 12:10	08/09/21 12:05
890-1074-14	SB-16-10	Solid	08/06/21 13:45	08/09/21 12:05
890-1074-15	SB-16-20	Solid	08/06/21 14:00	08/09/21 12:05
890-1074-16	SB-14-2	Solid	08/06/21 14:05	08/09/21 12:05
890-1074-17	SB-14-4	Solid	08/06/21 14:20	08/09/21 12:05
890-1074-18	SB-14-25	Solid	08/06/21 14:50	08/09/21 12:05
890-1074-19	SB-14-30	Solid	08/06/21 14:55	08/09/21 12:05
890-1074-20	SB-14-35	Solid	08/06/21 15:00	08/09/21 12:05
890-1074-21	SB-43-2	Solid	08/06/21 15:15	08/09/21 12:05
890-1074-22	SB-43-4	Solid	08/06/21 15:20	08/09/21 12:05
890-1074-23	SB-43-25	Solid	08/06/21 15:50	08/09/21 12:05
890-1074-24	SB-43-35	Solid	08/07/21 09:20	08/09/21 12:05
890-1074-25	SB-43-40	Solid	08/07/21 09:30	08/09/21 12:05
890-1074-26	SB-43-45	Solid	08/07/21 10:30	08/09/21 12:05
890-1074-27	SB-12-2	Solid	08/07/21 10:40	08/09/21 12:05
890-1074-28	SB-12-4	Solid	08/07/21 10:45	08/09/21 12:05
890-1074-29	SB-12-20	Solid	08/07/21 11:20	08/09/21 12:05
890-1074-30	SB-12-40	Solid	08/07/21 12:00	08/09/21 12:05
890-1074-31	SB-12-45	Solid	08/07/21 12:00	08/09/21 12:05
890-1074-32	SB-38-2	Solid	08/07/21 13:15	08/09/21 12:05
890-1074-33	SB-38-4	Solid	08/07/21 13:20	08/09/21 12:05
890-1074-34	SB-38-20	Solid	08/07/21 14:05	08/09/21 12:05
890-1074-35	SB-38-40	Solid	08/07/21 14:25	08/09/21 12:05
890-1074-36	SB-38-60	Solid	08/07/21 15:30	08/09/21 12:05
890-1074-37	SB-38-65	Solid	08/07/21 15:50	08/09/21 12:05
890-1074-38	SB-37-2	Solid	08/07/21 16:10	08/09/21 12:05
890-1074-39	SB-37-4	Solid	08/07/21 16:25	08/09/21 12:05
890-1074-40	SB-37-30	Solid	08/07/21 17:10	08/09/21 12:05
890-1074-41	SB-35-4	Solid	08/08/21 12:25	08/09/21 12:05
890-1074-42	SB-35-25	Solid	08/08/21 13:40	08/09/21 12:05
890-1074-43	SB-35-40	Solid	08/08/21 16:05	08/09/21 12:05
890-1074-44	SB-35-45	Solid	08/08/21 16:20	08/09/21 12:05
890-1074-45	SB-34-2	Solid	08/08/21 16:30	08/09/21 12:05
890-1074-46	SB-34-6	Solid	08/08/21 16:50	08/09/21 12:05
890-1074-47	SB-34-4	Solid	08/08/21 16:55	08/09/21 12:05
890-1074-48	SB-34-15	Solid	08/08/21 17:05	08/09/21 12:05
890-1074-49	SB-34-25	Solid	08/08/21 17:15	08/09/21 12:05

Page 518 of 713

8/12/2021

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 5

Project Manager:	Becky Haskell	Bill to: (if different)	James Kennedy
Company Name:	GHD	Company Name:	EOG
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	432 250 7917	Email:	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐ Routine ☐ Rush	
Project Location:		Due Date:	3-Day
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	T-NM008	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	6.8	
Total Containers:		Corrected Temperature:	6.6	

ANALYSIS REQUEST

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

890-1074 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride 300	BTEX 8021	TPH 8015 MOD GRO	Sample Comments
SB-44-2'	S	8-6-21	0900		G	1					
SB-44-4'			0905								
SB-44-8'			0915								
SB-44-25'			0940								
SB-44-30'			0945								
SB-15-2'			0955								
SB-15-4'			1000								
SB-15-6'			1020								
SB-15-35'			1120								
SB-15-40'			1130								

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	N.	8/9/21 11:00	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev 2020.2

Page 82 of 88

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 519 of 713

8/12/2021

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 5

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐Routine ☐Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	See FIS
Cooler Custody Seals:	Yes No N/A	Correction Factor:	Pass
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: Chloride 300	BTEX 8021	TPH 8015 MOD, GRO DRO	Sample Comments
SB-15-4.5'	S	8-6-21	1150		G	1				
SB-16-2'			1205							
SB-16-4'			1210							
SB-16-10'			1345							
SB-16-20'			1400							
SB-14-2'			1405							
SB-14-4'			1420							
SB-14-25'			1450							
SB-14-30'			1455							
SB-14-35'	↓	↓	1500		↓	↓	↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8/9/21 11:08	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020 2

Page 83 of 88

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 520 of 713

8/12/2021

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 3 of 5

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐Routine ☐Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride 300	BTEX 8021	TPH 8015 MOD,GRO,DRO	Sample Comments
SB-43-2'	S	8-6-21	1515		G	1					
SB-43-4'			1520								
SB-43-25'			1550								
SB-43-35'		8-7-21	0920								
SB-43-40'			0930								
SB-43-45'			1030								
SB-10-2'			1040								
SB-12-4'			1045								
SB-12-20'			1120								
SB-12-40'			1200								

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8/9/21 11:00	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev 2020.2

Page 84 of 88

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 521 of 713

8/12/2021

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 4 of 5

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐Routine ☐Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	~~Yes~~ No	Thermometer ID:	See List	
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	~~Yes~~ No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2S0_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: Chloride 300	BTEX 8021	TPH 8015 MOD DRO GRO	Sample Comments
SB-12-~~60~~40'	S	8-2-21	1200		G	1				
~~SB-30-60~~ SB-30-2'			1315							
SB-38-4'			1320							
SB-38-20'			1405							
SB-38-40'			1425							
SB-38-60'			1530							
SB-38-65'			1550							
SB-37-2'			1610							
SB-37-4'			1625							
SB-37-~~30~~			1710							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	N.	8/9/21 11:08	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

Page 85 of 88

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 522 of 713

8/12/2021

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 5 of 5

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐Routine ☐Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	Sept (1st page)	
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride 300	BTEX 8021	TPH 8015 MOD, GRO, DRO	Sample Comments
SB-35-4'	S	8.8.21	1225		G	1					
SB-35-25'			1340								
SB-35-46'			1605								
SB-35-45'			1620								
SB-34-2'			1630								
SB-34-6'			1650								
SB-34-4'			1655								
SB-34-16'			1705								
SB-34-25'	↓	↓	1715		↓	↓		↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8/9/21 11:00			
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

Page 86 of 88

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1074-1
SDG Number: 11220747

Login Number: 1074
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1074-1
SDG Number: 11220747

Login Number: 1074
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 08/10/21 11:12 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1075-1
Laboratory Sample Delivery Group: 11220747
Client Project/Site: Flamenco #1

For:
GHD Services Inc.
2135 South Loop 250 West
Midland, Texas 79703

Attn: Becky Haskell

Authorized for release by:
8/13/2021 12:29:54 PM

Debbie Simmons, Project Manager
(281)240-4200
debbie.simmons@eurofinset.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: GHD Services Inc.
Project/Site: Flamenco #1

Laboratory Job ID: 890-1075-1
SDG: 11220747

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 12
QC Sample Results 13
QC Association Summary 17
Lab Chronicle 20
Certification Summary 23
Method Summary 24
Sample Summary 25
Chain of Custody 26
Receipt Checklists 27

Definitions/Glossary

Client: GHD Services Inc. Job ID: 890-1075-1
Project/Site: Flamenco #1 SDG: 11220747

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Job ID: 890-1075-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1075-1

Receipt
The samples were received on 8/9/2021 12:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.6°C

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1075-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-37-45 Lab Sample ID: 890-1075-1

Date Collected: 08/07/21 17:25 **Matrix: Solid**
Date Received: 08/09/21 12:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		08/10/21 09:24	08/11/21 01:16	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		08/10/21 09:24	08/11/21 01:16	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		08/10/21 09:24	08/11/21 01:16	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:24	08/11/21 01:16	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		08/10/21 09:24	08/11/21 01:16	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:24	08/11/21 01:16	1
Total BTEX	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:24	08/11/21 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*08/10/21 09:24*	*08/11/21 01:16*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*08/10/21 09:24*	*08/11/21 01:16*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 14:43	08/10/21 21:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 14:43	08/10/21 21:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 14:43	08/10/21 21:24	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 14:43	08/10/21 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*08/10/21 14:43*	*08/10/21 21:24*	*1*
o-Terphenyl	*110*		*70 - 130*	*08/10/21 14:43*	*08/10/21 21:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**812**		5.00	0.858	mg/Kg			08/11/21 20:42	1

Client Sample ID: SB-37-60 Lab Sample ID: 890-1075-2

Date Collected: 08/08/21 09:50 **Matrix: Solid**
Date Received: 08/09/21 12:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 09:24	08/11/21 01:37	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/10/21 09:24	08/11/21 01:37	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/10/21 09:24	08/11/21 01:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:24	08/11/21 01:37	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/10/21 09:24	08/11/21 01:37	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:24	08/11/21 01:37	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:24	08/11/21 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*08/10/21 09:24*	*08/11/21 01:37*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/10/21 09:24*	*08/11/21 01:37*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 22:27	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1075-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-37-60 Lab Sample ID: 890-1075-2

Date Collected: 08/08/21 09:50 **Matrix: Solid**
Date Received: 08/09/21 12:53

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 22:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 22:27	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*08/10/21 14:43*	*08/10/21 22:27*	*1*
o-Terphenyl	*102*		*70 - 130*	*08/10/21 14:43*	*08/10/21 22:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**273**		5.05	0.867	mg/Kg			08/11/21 20:48	1

Client Sample ID: SB-37-65 Lab Sample ID: 890-1075-3

Date Collected: 08/08/21 10:00 **Matrix: Solid**
Date Received: 08/09/21 12:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 09:24	08/11/21 01:57	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/10/21 09:24	08/11/21 01:57	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/10/21 09:24	08/11/21 01:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:24	08/11/21 01:57	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/10/21 09:24	08/11/21 01:57	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:24	08/11/21 01:57	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:24	08/11/21 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*08/10/21 09:24*	*08/11/21 01:57*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/10/21 09:24*	*08/11/21 01:57*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/10/21 22:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/10/21 22:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/10/21 22:48	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/10/21 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*08/10/21 14:43*	*08/10/21 22:48*	*1*
o-Terphenyl	*109*		*70 - 130*	*08/10/21 14:43*	*08/10/21 22:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**147**		5.05	0.867	mg/Kg			08/11/21 20:53	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1075-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-36-2

Lab Sample ID: 890-1075-4
Date Collected: 08/08/21 10:30
Matrix: Solid
Date Received: 08/09/21 12:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		08/10/21 09:24	08/11/21 02:18	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/10/21 09:24	08/11/21 02:18	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		08/10/21 09:24	08/11/21 02:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 09:24	08/11/21 02:18	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		08/10/21 09:24	08/11/21 02:18	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 09:24	08/11/21 02:18	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg		08/10/21 09:24	08/11/21 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/10/21 09:24*	*08/11/21 02:18*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/10/21 09:24*	*08/11/21 02:18*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 23:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 23:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 23:09	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*08/10/21 14:43*	*08/10/21 23:09*	*1*
o-Terphenyl	*130*		*70 - 130*	*08/10/21 14:43*	*08/10/21 23:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35.3**		4.98	0.855	mg/Kg			08/11/21 20:59	1

Client Sample ID: SB-36-4

Lab Sample ID: 890-1075-5
Date Collected: 08/08/21 10:35
Matrix: Solid
Date Received: 08/09/21 12:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 09:24	08/11/21 02:38	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/10/21 09:24	08/11/21 02:38	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/10/21 09:24	08/11/21 02:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:24	08/11/21 02:38	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/10/21 09:24	08/11/21 02:38	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:24	08/11/21 02:38	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/10/21 09:24	08/11/21 02:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*08/10/21 09:24*	*08/11/21 02:38*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/10/21 09:24*	*08/11/21 02:38*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/10/21 23:30	1

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1075-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-36-4 Lab Sample ID: 890-1075-5

Date Collected: 08/08/21 10:35 **Matrix: Solid**
Date Received: 08/09/21 12:53

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/10/21 23:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/10/21 23:30	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/10/21 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*08/10/21 14:43*	*08/10/21 23:30*	*1*
o-Terphenyl	*116*		*70 - 130*	*08/10/21 14:43*	*08/10/21 23:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31.3**		5.00	0.858	mg/Kg			08/11/21 21:04	1

Client Sample ID: SB-36-15 Lab Sample ID: 890-1075-6

Date Collected: 08/08/21 10:55 **Matrix: Solid**
Date Received: 08/09/21 12:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		08/10/21 09:24	08/11/21 02:58	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		08/10/21 09:24	08/11/21 02:58	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		08/10/21 09:24	08/11/21 02:58	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:24	08/11/21 02:58	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		08/10/21 09:24	08/11/21 02:58	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:24	08/11/21 02:58	1
Total BTEX	<0.00396	U	0.00396	0.00100	mg/Kg		08/10/21 09:24	08/11/21 02:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*08/10/21 09:24*	*08/11/21 02:58*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/10/21 09:24*	*08/11/21 02:58*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 23:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 23:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 23:51	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/10/21 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*08/10/21 14:43*	*08/10/21 23:51*	*1*
o-Terphenyl	*106*		*70 - 130*	*08/10/21 14:43*	*08/10/21 23:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2210**		25.0	4.29	mg/Kg			08/11/21 21:10	5

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1075-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-36-50 Lab Sample ID: 890-1075-7

Date Collected: 08/08/21 12:00 **Matrix: Solid**
Date Received: 08/09/21 12:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/10/21 09:24	08/11/21 03:19	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/10/21 09:24	08/11/21 03:19	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/10/21 09:24	08/11/21 03:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:24	08/11/21 03:19	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/10/21 09:24	08/11/21 03:19	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:24	08/11/21 03:19	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/10/21 09:24	08/11/21 03:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/10/21 09:24*	*08/11/21 03:19*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/10/21 09:24*	*08/11/21 03:19*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/11/21 00:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/11/21 00:12	1
Oil Range Organics (Over C28-C36)	**19.2**	**J**	49.8	14.9	mg/Kg		08/10/21 14:43	08/11/21 00:12	1
Total TPH	**19.2**	**J**	49.8	14.9	mg/Kg		08/10/21 14:43	08/11/21 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*08/10/21 14:43*	*08/11/21 00:12*	*1*
o-Terphenyl	*111*		*70 - 130*	*08/10/21 14:43*	*08/11/21 00:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2060**		24.8	4.25	mg/Kg			08/11/21 21:16	5

Client Sample ID: SB-36-60 Lab Sample ID: 890-1075-8

Date Collected: 08/08/21 12:45 **Matrix: Solid**
Date Received: 08/09/21 12:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 09:24	08/11/21 04:41	1
Toluene	**0.000586**	**J**	0.00200	0.000456	mg/Kg		08/10/21 09:24	08/11/21 04:41	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 09:24	08/11/21 04:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/11/21 04:41	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/10/21 09:24	08/11/21 04:41	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/11/21 04:41	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/11/21 04:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/10/21 09:24*	*08/11/21 04:41*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*08/10/21 09:24*	*08/11/21 04:41*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/11/21 00:34	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc. Job ID: 890-1075-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-36-60 Lab Sample ID: 890-1075-8

Date Collected: 08/08/21 12:45 **Matrix: Solid**
Date Received: 08/09/21 12:53

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/11/21 00:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/11/21 00:34	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/11/21 00:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*08/10/21 14:43*	*08/11/21 00:34*	*1*
o-Terphenyl	*109*		*70 - 130*	*08/10/21 14:43*	*08/11/21 00:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**91.2**		5.00	0.858	mg/Kg			08/12/21 03:26	1

Client Sample ID: SB-36-65 Lab Sample ID: 890-1075-9

Date Collected: 08/08/21 13:05 **Matrix: Solid**
Date Received: 08/09/21 12:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/10/21 09:24	08/11/21 05:01	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/10/21 09:24	08/11/21 05:01	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/10/21 09:24	08/11/21 05:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:24	08/11/21 05:01	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/10/21 09:24	08/11/21 05:01	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:24	08/11/21 05:01	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/10/21 09:24	08/11/21 05:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*08/10/21 09:24*	*08/11/21 05:01*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/10/21 09:24*	*08/11/21 05:01*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/11/21 00:55	1
Diesel Range Organics (Over C10-C28)	**26.3**	**J**	49.9	15.0	mg/Kg		08/10/21 14:43	08/11/21 00:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/10/21 14:43	08/11/21 00:55	1
Total TPH	**26.3**	**J**	49.9	15.0	mg/Kg		08/10/21 14:43	08/11/21 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*08/10/21 14:43*	*08/11/21 00:55*	*1*
o-Terphenyl	*126*		*70 - 130*	*08/10/21 14:43*	*08/11/21 00:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1620**		25.0	4.28	mg/Kg			08/12/21 11:00	5

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Client Sample ID: SB-35-2

Date Collected: 08/08/21 12:20
Date Received: 08/09/21 12:53

Lab Sample ID: 890-1075-10

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		08/10/21 09:24	08/11/21 05:21	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		08/10/21 09:24	08/11/21 05:21	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		08/10/21 09:24	08/11/21 05:21	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		08/10/21 09:24	08/11/21 05:21	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/10/21 09:24	08/11/21 05:21	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		08/10/21 09:24	08/11/21 05:21	1
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg		08/10/21 09:24	08/11/21 05:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*08/10/21 09:24*	*08/11/21 05:21*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/10/21 09:24*	*08/11/21 05:21*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/11/21 01:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/11/21 01:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/11/21 01:16	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/10/21 14:43	08/11/21 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*08/10/21 14:43*	*08/11/21 01:16*	*1*
o-Terphenyl	*112*		*70 - 130*	*08/10/21 14:43*	*08/11/21 01:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**109**		4.97	0.853	mg/Kg			08/12/21 03:37	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-1075-1	SB-37-45	121	101
890-1075-2	SB-37-60	124	98
890-1075-3	SB-37-65	123	98
890-1075-4	SB-36-2	118	95
890-1075-5	SB-36-4	123	99
890-1075-6	SB-36-15	126	98
890-1075-7	SB-36-50	118	97
890-1075-8	SB-36-60	118	90
890-1075-9	SB-36-65	115	94
890-1075-10	SB-35-2	123	94
LCS 880-6288/1-A	Lab Control Sample	112	104
LCSD 880-6288/2-A	Lab Control Sample Dup	106	104
MB 880-6287/5-A	Method Blank	97	98
MB 880-6288/5-A	Method Blank	135 S1+	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-1075-1	SB-37-45	104	110
890-1075-1 MS	SB-37-45	91	89
890-1075-1 MSD	SB-37-45	92	89
890-1075-2	SB-37-60	95	102
890-1075-3	SB-37-65	102	109
890-1075-4	SB-36-2	119	130
890-1075-5	SB-36-4	107	116
890-1075-6	SB-36-15	98	106
890-1075-7	SB-36-50	103	111
890-1075-8	SB-36-60	105	109
890-1075-9	SB-36-65	120	126
890-1075-10	SB-35-2	106	112
LCS 880-6330/2-A	Lab Control Sample	107	104
LCSD 880-6330/3-A	Lab Control Sample Dup	97	95
MB 880-6330/1-A	Method Blank	101	105

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6287/5-A
Matrix: Solid
Analysis Batch: 6292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6287

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 13:01	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:18	08/10/21 13:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*08/10/21 09:18*	*08/10/21 13:01*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/10/21 09:18*	*08/10/21 13:01*	*1*

Lab Sample ID: MB 880-6288/5-A
Matrix: Solid
Analysis Batch: 6292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/10/21 23:54	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/10/21 09:24	08/10/21 23:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*08/10/21 09:24*	*08/10/21 23:54*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/10/21 09:24*	*08/10/21 23:54*	*1*

Lab Sample ID: LCS 880-6288/1-A
Matrix: Solid
Analysis Batch: 6292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08756		mg/Kg		88	70 - 130
Toluene	0.100	0.08601		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.08731		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1787		mg/Kg		89	70 - 130
o-Xylene	0.100	0.08985		mg/Kg		90	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-6288/2-A
Matrix: Solid
Analysis Batch: 6292

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6288

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08313		mg/Kg		83	70 - 130	5	35
Toluene			0.100	0.07869		mg/Kg		79	70 - 130	9	35
Ethylbenzene			0.100	0.07898		mg/Kg		79	70 - 130	10	35
m-Xylene & p-Xylene			0.200	0.1600		mg/Kg		80	70 - 130	11	35
o-Xylene			0.100	0.08117		mg/Kg		81	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-6330/1-A
Matrix: Solid
Analysis Batch: 6276

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6330

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/10/21 14:43	08/10/21 20:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 14:43	08/10/21 20:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/10/21 14:43	08/10/21 20:20	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/10/21 14:43	08/10/21 20:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*08/10/21 14:43*	*08/10/21 20:20*	*1*
o-Terphenyl	*105*		*70 - 130*	*08/10/21 14:43*	*08/10/21 20:20*	*1*

Lab Sample ID: LCS 880-6330/2-A
Matrix: Solid
Analysis Batch: 6276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6330

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1191		mg/Kg		119	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1246		mg/Kg		125	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Lab Sample ID: LCSD 880-6330/3-A
Matrix: Solid
Analysis Batch: 6276

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6330

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1043		mg/Kg		104	70 - 130	13	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-6330/3-A
Matrix: Solid
Analysis Batch: 6276

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6330

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)			1000	1129		mg/Kg		113	70 - 130	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Lab Sample ID: 890-1075-1 MS
Matrix: Solid
Analysis Batch: 6276

Client Sample ID: SB-37-45
Prep Type: Total/NA
Prep Batch: 6330

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	901.5		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	943.8		mg/Kg		95	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

Lab Sample ID: 890-1075-1 MSD
Matrix: Solid
Analysis Batch: 6276

Client Sample ID: SB-37-45
Prep Type: Total/NA
Prep Batch: 6330

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	916.1		mg/Kg		92	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	960.6		mg/Kg		96	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6319/1-A
Matrix: Solid
Analysis Batch: 6396

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/11/21 18:27	1

Lab Sample ID: LCS 880-6319/2-A
Matrix: Solid
Analysis Batch: 6396

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride			250	259.3		mg/Kg		104	90 - 110

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-6319/3-A
Matrix: Solid
Analysis Batch: 6396

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	259.8		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-6320/1-A
Matrix: Solid
Analysis Batch: 6399

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/12/21 00:54	1

Lab Sample ID: LCS 880-6320/2-A
Matrix: Solid
Analysis Batch: 6399

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	267.0		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-6320/3-A
Matrix: Solid
Analysis Batch: 6399

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	267.3		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

GC VOA

Prep Batch: 6287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6287/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 6288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1075-1	SB-37-45	Total/NA	Solid	5035	
890-1075-2	SB-37-60	Total/NA	Solid	5035	
890-1075-3	SB-37-65	Total/NA	Solid	5035	
890-1075-4	SB-36-2	Total/NA	Solid	5035	
890-1075-5	SB-36-4	Total/NA	Solid	5035	
890-1075-6	SB-36-15	Total/NA	Solid	5035	
890-1075-7	SB-36-50	Total/NA	Solid	5035	
890-1075-8	SB-36-60	Total/NA	Solid	5035	
890-1075-9	SB-36-65	Total/NA	Solid	5035	
890-1075-10	SB-35-2	Total/NA	Solid	5035	
MB 880-6288/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6288/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6288/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 6292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1075-1	SB-37-45	Total/NA	Solid	8021B	6288
890-1075-2	SB-37-60	Total/NA	Solid	8021B	6288
890-1075-3	SB-37-65	Total/NA	Solid	8021B	6288
890-1075-4	SB-36-2	Total/NA	Solid	8021B	6288
890-1075-5	SB-36-4	Total/NA	Solid	8021B	6288
890-1075-6	SB-36-15	Total/NA	Solid	8021B	6288
890-1075-7	SB-36-50	Total/NA	Solid	8021B	6288
890-1075-8	SB-36-60	Total/NA	Solid	8021B	6288
890-1075-9	SB-36-65	Total/NA	Solid	8021B	6288
890-1075-10	SB-35-2	Total/NA	Solid	8021B	6288
MB 880-6287/5-A	Method Blank	Total/NA	Solid	8021B	6287
MB 880-6288/5-A	Method Blank	Total/NA	Solid	8021B	6288
LCS 880-6288/1-A	Lab Control Sample	Total/NA	Solid	8021B	6288
LCSD 880-6288/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6288

GC Semi VOA

Analysis Batch: 6276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1075-1	SB-37-45	Total/NA	Solid	8015B NM	6330
890-1075-2	SB-37-60	Total/NA	Solid	8015B NM	6330
890-1075-3	SB-37-65	Total/NA	Solid	8015B NM	6330
890-1075-4	SB-36-2	Total/NA	Solid	8015B NM	6330
890-1075-5	SB-36-4	Total/NA	Solid	8015B NM	6330
890-1075-6	SB-36-15	Total/NA	Solid	8015B NM	6330
890-1075-7	SB-36-50	Total/NA	Solid	8015B NM	6330
890-1075-8	SB-36-60	Total/NA	Solid	8015B NM	6330
890-1075-9	SB-36-65	Total/NA	Solid	8015B NM	6330
890-1075-10	SB-35-2	Total/NA	Solid	8015B NM	6330
MB 880-6330/1-A	Method Blank	Total/NA	Solid	8015B NM	6330
LCS 880-6330/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6330

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

GC Semi VOA (Continued)

Analysis Batch: 6276 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-6330/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6330
890-1075-1 MS	SB-37-45	Total/NA	Solid	8015B NM	6330
890-1075-1 MSD	SB-37-45	Total/NA	Solid	8015B NM	6330

Prep Batch: 6330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1075-1	SB-37-45	Total/NA	Solid	8015NM Prep	
890-1075-2	SB-37-60	Total/NA	Solid	8015NM Prep	
890-1075-3	SB-37-65	Total/NA	Solid	8015NM Prep	
890-1075-4	SB-36-2	Total/NA	Solid	8015NM Prep	
890-1075-5	SB-36-4	Total/NA	Solid	8015NM Prep	
890-1075-6	SB-36-15	Total/NA	Solid	8015NM Prep	
890-1075-7	SB-36-50	Total/NA	Solid	8015NM Prep	
890-1075-8	SB-36-60	Total/NA	Solid	8015NM Prep	
890-1075-9	SB-36-65	Total/NA	Solid	8015NM Prep	
890-1075-10	SB-35-2	Total/NA	Solid	8015NM Prep	
MB 880-6330/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6330/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6330/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1075-1 MS	SB-37-45	Total/NA	Solid	8015NM Prep	
890-1075-1 MSD	SB-37-45	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 6319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1075-1	SB-37-45	Soluble	Solid	DI Leach	
890-1075-2	SB-37-60	Soluble	Solid	DI Leach	
890-1075-3	SB-37-65	Soluble	Solid	DI Leach	
890-1075-4	SB-36-2	Soluble	Solid	DI Leach	
890-1075-5	SB-36-4	Soluble	Solid	DI Leach	
890-1075-6	SB-36-15	Soluble	Solid	DI Leach	
890-1075-7	SB-36-50	Soluble	Solid	DI Leach	
MB 880-6319/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6319/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6319/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 6320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1075-8	SB-36-60	Soluble	Solid	DI Leach	
890-1075-9	SB-36-65	Soluble	Solid	DI Leach	
890-1075-10	SB-35-2	Soluble	Solid	DI Leach	
MB 880-6320/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6320/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6320/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 6396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1075-1	SB-37-45	Soluble	Solid	300.0	6319
890-1075-2	SB-37-60	Soluble	Solid	300.0	6319
890-1075-3	SB-37-65	Soluble	Solid	300.0	6319

QC Association Summary

Client: GHD Services Inc. Job ID: 890-1075-1
Project/Site: Flamenco #1 SDG: 11220747

HPLC/IC (Continued)

Analysis Batch: 6396 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1075-4	SB-36-2	Soluble	Solid	300.0	6319
890-1075-5	SB-36-4	Soluble	Solid	300.0	6319
890-1075-6	SB-36-15	Soluble	Solid	300.0	6319
890-1075-7	SB-36-50	Soluble	Solid	300.0	6319
MB 880-6319/1-A	Method Blank	Soluble	Solid	300.0	6319
LCS 880-6319/2-A	Lab Control Sample	Soluble	Solid	300.0	6319
LCSD 880-6319/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6319

Analysis Batch: 6399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1075-8	SB-36-60	Soluble	Solid	300.0	6320
890-1075-9	SB-36-65	Soluble	Solid	300.0	6320
890-1075-10	SB-35-2	Soluble	Solid	300.0	6320
MB 880-6320/1-A	Method Blank	Soluble	Solid	300.0	6320
LCS 880-6320/2-A	Lab Control Sample	Soluble	Solid	300.0	6320
LCSD 880-6320/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6320

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Client Sample ID: SB-37-45
Date Collected: 08/07/21 17:25
Date Received: 08/09/21 12:53

Lab Sample ID: 890-1075-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 01:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6330	08/10/21 14:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 21:24	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 20:42	CH	XEN MID

Client Sample ID: SB-37-60
Date Collected: 08/08/21 09:50
Date Received: 08/09/21 12:53

Lab Sample ID: 890-1075-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 01:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6330	08/10/21 14:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 22:27	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 20:48	CH	XEN MID

Client Sample ID: SB-37-65
Date Collected: 08/08/21 10:00
Date Received: 08/09/21 12:53

Lab Sample ID: 890-1075-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 01:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6330	08/10/21 14:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 22:48	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 20:53	CH	XEN MID

Client Sample ID: SB-36-2
Date Collected: 08/08/21 10:30
Date Received: 08/09/21 12:53

Lab Sample ID: 890-1075-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 02:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6330	08/10/21 14:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 23:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 20:59	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc. Job ID: 890-1075-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-36-4 Lab Sample ID: 890-1075-5

Date Collected: 08/08/21 10:35 **Matrix: Solid**
Date Received: 08/09/21 12:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 02:38	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6330	08/10/21 14:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 23:30	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		1			6396	08/11/21 21:04	CH	XEN MID

Client Sample ID: SB-36-15 Lab Sample ID: 890-1075-6

Date Collected: 08/08/21 10:55 **Matrix: Solid**
Date Received: 08/09/21 12:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 02:58	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6330	08/10/21 14:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/10/21 23:51	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		5			6396	08/11/21 21:10	CH	XEN MID

Client Sample ID: SB-36-50 Lab Sample ID: 890-1075-7

Date Collected: 08/08/21 12:00 **Matrix: Solid**
Date Received: 08/09/21 12:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 03:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6330	08/10/21 14:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/11/21 00:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6319	08/10/21 11:38	CH	XEN MID
Soluble	Analysis	300.0		5			6396	08/11/21 21:16	CH	XEN MID

Client Sample ID: SB-36-60 Lab Sample ID: 890-1075-8

Date Collected: 08/08/21 12:45 **Matrix: Solid**
Date Received: 08/09/21 12:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 04:41	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6330	08/10/21 14:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/11/21 00:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			6399	08/12/21 03:26	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc. Job ID: 890-1075-1
Project/Site: Flamenco #1 SDG: 11220747

Client Sample ID: SB-36-65 Lab Sample ID: 890-1075-9

Date Collected: 08/08/21 13:05 **Matrix: Solid**
Date Received: 08/09/21 12:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 05:01	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6330	08/10/21 14:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/11/21 00:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			6399	08/12/21 11:00	CH	XEN MID

Client Sample ID: SB-35-2 Lab Sample ID: 890-1075-10

Date Collected: 08/08/21 12:20 **Matrix: Solid**
Date Received: 08/09/21 12:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	6288	08/10/21 09:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6292	08/11/21 05:21	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6330	08/10/21 14:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6276	08/11/21 01:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6320	08/10/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			6399	08/12/21 03:37	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: GHD Services Inc. Job ID: 890-1075-1
Project/Site: Flamenco #1 SDG: 11220747

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: GHD Services Inc. Job ID: 890-1075-1
Project/Site: Flamenco #1 SDG: 11220747

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1075-1
SDG: 11220747

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1075-1	SB-37-45	Solid	08/07/21 17:25	08/09/21 12:53
890-1075-2	SB-37-60	Solid	08/08/21 09:50	08/09/21 12:53
890-1075-3	SB-37-65	Solid	08/08/21 10:00	08/09/21 12:53
890-1075-4	SB-36-2	Solid	08/08/21 10:30	08/09/21 12:53
890-1075-5	SB-36-4	Solid	08/08/21 10:35	08/09/21 12:53
890-1075-6	SB-36-15	Solid	08/08/21 10:55	08/09/21 12:53
890-1075-7	SB-36-50	Solid	08/08/21 12:00	08/09/21 12:53
890-1075-8	SB-36-60	Solid	08/08/21 12:45	08/09/21 12:53
890-1075-9	SB-36-65	Solid	08/08/21 13:05	08/09/21 12:53
890-1075-10	SB-35-2	Solid	08/08/21 12:20	08/09/21 12:53

Page 550 of 713

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Becky Haskell	Bill to: (if different)	James Kennedy
Company Name:	GHD	Company Name:	EOG
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐ Routine ☒ Rush	
Project Location:		Due Date: 3 Day	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	TM007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	6.8	
Total Containers:		Corrected Temperature:	6.6	

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides 300	BTEX 8021	TPH 8015 MRO GRO DRO	Sample Comments
SB-37-45'	S	8.7.21	1125		G	1					
SB-37-60'		8.8.21	0950								
SB-37-65'		8.8.21	1000								
SB-36-2'		8.8.21	1030								
SB-36-4'			1035								
SB-36-15'			1055								
SB-36-50'			1200								
SB-36-60'			1245								
SB-36-65'			1305								
SB-35-2'	↓	↓	1220		↓	↓		↓	↓	↓	

890-1075 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Lee Culp	8.9.21 1253	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Page 26 of 28

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1075-1
SDG Number: 11220747

Login Number: 1075
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1075-1
SDG Number: 11220747

Login Number: 1075
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 08/10/21 11:11 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1100-1
Laboratory Sample Delivery Group: 11220747
Client Project/Site: Flamenco #1
Revision: 1

For:
GHD Services Inc.
2135 South Loop 250 West
Midland, Texas 79703

Attn: Becky Haskell

Authorized for release by:
8/18/2021 12:14:14 PM

Debbie Simmons, Project Manager
(281)240-4200
debbie.simmons@eurofinset.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: GHD Services Inc.
Project/Site: Flamenco #1

Laboratory Job ID: 890-1100-1
SDG: 11220747

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 5
Client Sample Results 7
Surrogate Summary 64
QC Sample Results 69
QC Association Summary 90
Lab Chronicle 106
Certification Summary 128
Method Summary 129
Sample Summary 130
Chain of Custody 132
Receipt Checklists 144

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Definitions/Glossary

Client: GHD Services Inc. Job ID: 890-1100-1
Project/Site: Flamenco #1 SDG: 11220747

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Job ID: 890-1100-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1100-1

Comments
No additional comments.

Receipt
The samples were received on 8/12/2021 1:46 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.0º C.

Revision
Report revised (Rev1) to correct sample ID on sample 880-1100-10 to match the COC.....SB-31-25.

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SB-29-15 (890-1100-36). The container labels lists SB-29-8-10-21 16:30, while the COC lists SB-15 8-10-21 1625. The lab assumed these were the same sample since all others matched COC. Lab logged according to COC ID.

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: SB-27A-4 (890-1100-72). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SB-24-25 (890-1100-31), SB-24-30 (890-1100-32), SB-29-2 (890-1100-33), SB-29-4 (890-1100-34), SB-29-10 (890-1100-35), SB-29-15 (890-1100-36), SB-29-25 (890-1100-37), SB-22-2 (890-1100-38), SB-22-4 (890-1100-39) and SB-22-15 (890-1100-40). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SB-22-30 (890-1100-41), SB-22-45 (890-1100-42), SB-19-2 (890-1100-44), SB-19-4 (890-1100-45), SB-19-20 (890-1100-46), SB-21C-4 (890-1100-82), SB-21C-6 (890-1100-83), SB-21C-15 (890-1100-84) and SB-21C-20 (890-1100-85). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SB-31-4 (890-1100-8). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SB-26-2 (890-1100-17). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SB-40A-25 (890-1100-70). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-6494 and analytical batch 880-6495 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B NM: The continuing calibration verification (CCV) associated with batch 880-6580 recovered above the upper control limit for Diesel Range Organics (Over C10-C28) The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-6580/84).

Method 8015B NM: Surrogate compounds were inadvertently omitted during the extraction process for the following samples: (CCV 880-6591/27) and (CCV 880-6591/3). This was an analyst prep error.

Case Narrative

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Job ID: 890-1100-1 (Continued)

Laboratory: Eurofins Xenco, Carlsbad (Continued)

Method 8015B NM: The method blank for preparation batch 880-6589 and analytical batch 880-6591 contained <AffectedAnalytes> above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: SB-27A-20 (890-1100-75), SB-21B-2 (890-1100-76), SB-21B-4 (890-1100-77) and SB-21B-6 (890-1100-78). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: SB-21B-20 (890-1100-80). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-6531 and analytical batch 880-6622 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-33-2

Date Collected: 08/08/21 17:20
Date Received: 08/12/21 13:46
Sample Depth: - 2

Lab Sample ID: 890-1100-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000474**	**J *- *1**	0.00199	0.000383	mg/Kg		08/13/21 10:30	08/13/21 23:48	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/13/21 10:30	08/13/21 23:48	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/13/21 10:30	08/13/21 23:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 10:30	08/13/21 23:48	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/13/21 10:30	08/13/21 23:48	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 10:30	08/13/21 23:48	1
Total BTEX	<0.00398	U *- *1	0.00398	0.00100	mg/Kg		08/13/21 10:30	08/13/21 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/13/21 10:30*	*08/13/21 23:48*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/13/21 10:30*	*08/13/21 23:48*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/14/21 22:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/14/21 22:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/14/21 22:26	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/14/21 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*08/14/21 09:48*	*08/14/21 22:26*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/14/21 09:48*	*08/14/21 22:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.2**		4.98	0.855	mg/Kg			08/14/21 09:11	1

Client Sample ID: SB-33-4

Date Collected: 08/08/21 17:25
Date Received: 08/12/21 13:46
Sample Depth: - 4

Lab Sample ID: 890-1100-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *- *1	0.00198	0.000381	mg/Kg		08/13/21 10:30	08/14/21 00:09	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		08/13/21 10:30	08/14/21 00:09	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		08/13/21 10:30	08/14/21 00:09	1
m-Xylene & p-Xylene	**0.00101**	**J**	0.00396	0.00100	mg/Kg		08/13/21 10:30	08/14/21 00:09	1
o-Xylene	**0.000838**	**J**	0.00198	0.000341	mg/Kg		08/13/21 10:30	08/14/21 00:09	1
Xylenes, Total	**0.00185**	**J**	0.00396	0.00100	mg/Kg		08/13/21 10:30	08/14/21 00:09	1
Total BTEX	**0.00185**	**J *- *1**	0.00396	0.00100	mg/Kg		08/13/21 10:30	08/14/21 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*08/13/21 10:30*	*08/14/21 00:09*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/13/21 10:30*	*08/14/21 00:09*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-33-4

Date Collected: 08/08/21 17:25
Date Received: 08/12/21 13:46
Sample Depth: - 4

Lab Sample ID: 890-1100-2
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/14/21 23:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/14/21 23:28	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/14/21 23:28	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/14/21 23:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*08/14/21 09:48*	*08/14/21 23:28*	*1*
o-Terphenyl	*86*		*70 - 130*	*08/14/21 09:48*	*08/14/21 23:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30.4**		4.95	0.850	mg/Kg			08/14/21 09:17	1

Client Sample ID: SB-33-20

Date Collected: 08/08/21 17:50
Date Received: 08/12/21 13:46
Sample Depth: - 20

Lab Sample ID: 890-1100-3
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *- *1	0.00198	0.000381	mg/Kg		08/13/21 10:30	08/14/21 00:30	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		08/13/21 10:30	08/14/21 00:30	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		08/13/21 10:30	08/14/21 00:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		08/13/21 10:30	08/14/21 00:30	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		08/13/21 10:30	08/14/21 00:30	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		08/13/21 10:30	08/14/21 00:30	1
Total BTEX	<0.00396	U *- *1	0.00396	0.00100	mg/Kg		08/13/21 10:30	08/14/21 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*08/13/21 10:30*	*08/14/21 00:30*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*08/13/21 10:30*	*08/14/21 00:30*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/14/21 23:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/14/21 23:49	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/14/21 23:49	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/14/21 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*08/14/21 09:48*	*08/14/21 23:49*	*1*
o-Terphenyl	*94*		*70 - 130*	*08/14/21 09:48*	*08/14/21 23:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2440**		25.0	4.29	mg/Kg			08/16/21 17:48	5

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-33-55
Date Collected: 08/09/21 11:30
Date Received: 08/12/21 13:46
Sample Depth: - 55

Lab Sample ID: 890-1100-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	0.000385	mg/Kg		08/13/21 10:30	08/14/21 00:51	1
Toluene	**0.000459**	**J**	0.00200	0.000456	mg/Kg		08/13/21 10:30	08/14/21 00:51	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 10:30	08/14/21 00:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 10:30	08/14/21 00:51	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 10:30	08/14/21 00:51	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 10:30	08/14/21 00:51	1
Total BTEX	<0.00400	U *- *1	0.00400	0.00101	mg/Kg		08/13/21 10:30	08/14/21 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*08/13/21 10:30*	*08/14/21 00:51*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*08/13/21 10:30*	*08/14/21 00:51*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 00:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 00:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 00:10	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*08/14/21 09:48*	*08/15/21 00:10*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/14/21 09:48*	*08/15/21 00:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**895**		4.98	0.855	mg/Kg			08/16/21 18:05	1

Client Sample ID: SB-33-60
Date Collected: 08/09/21 12:00
Date Received: 08/12/21 13:46
Sample Depth: - 60

Lab Sample ID: 890-1100-5
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	0.000383	mg/Kg		08/13/21 10:30	08/14/21 01:11	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 10:30	08/14/21 01:11	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 10:30	08/14/21 01:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 10:30	08/14/21 01:11	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/13/21 10:30	08/14/21 01:11	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 10:30	08/14/21 01:11	1
Total BTEX	<0.00398	U *- *1	0.00398	0.00101	mg/Kg		08/13/21 10:30	08/14/21 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*08/13/21 10:30*	*08/14/21 01:11*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/13/21 10:30*	*08/14/21 01:11*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-33-60

Lab Sample ID: 890-1100-5
Matrix: Solid
Date Collected: 08/09/21 12:00
Date Received: 08/12/21 13:46
Sample Depth: - 60

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 00:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 00:30	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 00:30	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*08/14/21 09:48*	*08/15/21 00:30*	*1*
o-Terphenyl	*84*		*70 - 130*	*08/14/21 09:48*	*08/15/21 00:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**346**		5.04	0.865	mg/Kg			08/16/21 18:11	1

Client Sample ID: SB-33-65

Lab Sample ID: 890-1100-6
Matrix: Solid
Date Collected: 08/09/21 12:15
Date Received: 08/12/21 13:46
Sample Depth: - 65

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	0.000384	mg/Kg		08/13/21 10:30	08/14/21 01:32	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/13/21 10:30	08/14/21 01:32	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/13/21 10:30	08/14/21 01:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 10:30	08/14/21 01:32	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/13/21 10:30	08/14/21 01:32	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 10:30	08/14/21 01:32	1
Total BTEX	<0.00399	U *- *1	0.00399	0.00101	mg/Kg		08/13/21 10:30	08/14/21 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*08/13/21 10:30*	*08/14/21 01:32*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*08/13/21 10:30*	*08/14/21 01:32*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/16/21 15:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/16/21 15:42	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/16/21 15:42	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/16/21 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*08/14/21 09:48*	*08/16/21 15:42*	*1*
o-Terphenyl	*105*		*70 - 130*	*08/14/21 09:48*	*08/16/21 15:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**548**		4.99	0.857	mg/Kg			08/16/21 18:28	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-31-2

Date Collected: 08/09/21 13:55
Date Received: 08/12/21 13:46
Sample Depth: - 2

Lab Sample ID: 890-1100-7

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000397**	**J *- *1**	0.00199	0.000383	mg/Kg		08/13/21 10:30	08/14/21 01:53	1
Toluene	**0.00135**	**J**	0.00199	0.000454	mg/Kg		08/13/21 10:30	08/14/21 01:53	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 10:30	08/14/21 01:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 10:30	08/14/21 01:53	1
o-Xylene	**0.00104**	**J**	0.00199	0.000343	mg/Kg		08/13/21 10:30	08/14/21 01:53	1
Xylenes, Total	**0.00104**	**J**	0.00398	0.00101	mg/Kg		08/13/21 10:30	08/14/21 01:53	1
Total BTEX	**0.00279**	**J *- *1**	0.00398	0.00101	mg/Kg		08/13/21 10:30	08/14/21 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*08/13/21 10:30*	*08/14/21 01:53*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*08/13/21 10:30*	*08/14/21 01:53*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 01:12	1
Diesel Range Organics (Over C10-C28)	**15.5**	**J**	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 01:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 01:12	1
Total TPH	**15.5**	**J**	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*08/14/21 09:48*	*08/15/21 01:12*	*1*
o-Terphenyl	*85*		*70 - 130*	*08/14/21 09:48*	*08/15/21 01:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**134**		5.00	0.858	mg/Kg			08/16/21 18:33	1

Client Sample ID: SB-31-4

Date Collected: 08/09/21 14:00
Date Received: 08/12/21 13:46
Sample Depth: - 4

Lab Sample ID: 890-1100-8

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	0.000385	mg/Kg		08/13/21 10:30	08/14/21 02:14	1
Toluene	**0.0392**		0.00200	0.000456	mg/Kg		08/13/21 10:30	08/14/21 02:14	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 10:30	08/14/21 02:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 10:30	08/14/21 02:14	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 10:30	08/14/21 02:14	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 10:30	08/14/21 02:14	1
Total BTEX	**0.0392**	***- *1**	0.00400	0.00101	mg/Kg		08/13/21 10:30	08/14/21 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*777*	*S1+*	*70 - 130*	*08/13/21 10:30*	*08/14/21 02:14*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*08/13/21 10:30*	*08/14/21 02:14*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-31-4

Date Collected: 08/09/21 14:00
Date Received: 08/12/21 13:46
Sample Depth: - 4

Lab Sample ID: 890-1100-8
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 01:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 01:32	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 01:32	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*08/14/21 09:48*	*08/15/21 01:32*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/14/21 09:48*	*08/15/21 01:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**58.2**		4.95	0.850	mg/Kg			08/16/21 18:39	1

Client Sample ID: SB-31-15

Date Collected: 08/09/21 14:20
Date Received: 08/12/21 13:46
Sample Depth: - 15

Lab Sample ID: 890-1100-9
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *- *1	0.00202	0.000389	mg/Kg		08/13/21 10:30	08/14/21 02:35	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		08/13/21 10:30	08/14/21 02:35	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		08/13/21 10:30	08/14/21 02:35	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 10:30	08/14/21 02:35	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/13/21 10:30	08/14/21 02:35	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 10:30	08/14/21 02:35	1
Total BTEX	<0.00404	U *- *1	0.00404	0.00102	mg/Kg		08/13/21 10:30	08/14/21 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*08/13/21 10:30*	*08/14/21 02:35*	*1*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*	*08/13/21 10:30*	*08/14/21 02:35*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 01:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 01:53	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 01:53	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*08/14/21 09:48*	*08/15/21 01:53*	*1*
o-Terphenyl	*92*		*70 - 130*	*08/14/21 09:48*	*08/15/21 01:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5640**		49.7	8.53	mg/Kg			08/16/21 18:44	10

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-31-25

Lab Sample ID: 890-1100-10
Matrix: Solid
Date Collected: 08/09/21 14:30
Date Received: 08/12/21 13:46
Sample Depth: - 25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	0.000383	mg/Kg		08/13/21 10:30	08/14/21 02:55	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/13/21 10:30	08/14/21 02:55	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/13/21 10:30	08/14/21 02:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 10:30	08/14/21 02:55	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/13/21 10:30	08/14/21 02:55	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 10:30	08/14/21 02:55	1
Total BTEX	<0.00398	U *- *1	0.00398	0.00100	mg/Kg		08/13/21 10:30	08/14/21 02:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/13/21 10:30*	*08/14/21 02:55*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/13/21 10:30*	*08/14/21 02:55*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 02:14	1
Diesel Range Organics (Over C10-C28)	**15.1**	**J**	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 02:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 02:14	1
Total TPH	**15.1**	**J**	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*08/14/21 09:48*	*08/15/21 02:14*	*1*
o-Terphenyl	*97*		*70 - 130*	*08/14/21 09:48*	*08/15/21 02:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**286**		4.96	0.851	mg/Kg			08/16/21 18:50	1

Client Sample ID: SB-31-30

Lab Sample ID: 890-1100-11
Matrix: Solid
Date Collected: 08/09/21 14:35
Date Received: 08/12/21 13:46
Sample Depth: - 30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00177**	**J *- *1**	0.00201	0.000387	mg/Kg		08/13/21 10:30	08/14/21 04:21	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/13/21 10:30	08/14/21 04:21	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		08/13/21 10:30	08/14/21 04:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 10:30	08/14/21 04:21	1
o-Xylene	**0.00117**	**J**	0.00201	0.000345	mg/Kg		08/13/21 10:30	08/14/21 04:21	1
Xylenes, Total	**0.00117**	**J**	0.00402	0.00101	mg/Kg		08/13/21 10:30	08/14/21 04:21	1
Total BTEX	**0.00294**	**J *- *1**	0.00402	0.00101	mg/Kg		08/13/21 10:30	08/14/21 04:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*08/13/21 10:30*	*08/14/21 04:21*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*08/13/21 10:30*	*08/14/21 04:21*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-31-30

Lab Sample ID: 890-1100-11
Matrix: Solid
Date Collected: 08/09/21 14:35
Date Received: 08/12/21 13:46
Sample Depth: - 30

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 02:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 02:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 02:55	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 02:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*08/14/21 09:48*	*08/15/21 02:55*	*1*
o-Terphenyl	*95*		*70 - 130*	*08/14/21 09:48*	*08/15/21 02:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**402**		5.05	0.867	mg/Kg			08/16/21 18:56	1

Client Sample ID: SB-30-2

Lab Sample ID: 890-1100-12
Matrix: Solid
Date Collected: 08/09/21 14:50
Date Received: 08/12/21 13:46
Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00141**	**J *- *1**	0.00202	0.000388	mg/Kg		08/13/21 10:30	08/14/21 04:41	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		08/13/21 10:30	08/14/21 04:41	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/13/21 10:30	08/14/21 04:41	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 10:30	08/14/21 04:41	1
o-Xylene	**0.000669**	**J**	0.00202	0.000347	mg/Kg		08/13/21 10:30	08/14/21 04:41	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 10:30	08/14/21 04:41	1
Total BTEX	**0.00208**	**J *- *1**	0.00403	0.00102	mg/Kg		08/13/21 10:30	08/14/21 04:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*08/13/21 10:30*	*08/14/21 04:41*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*08/13/21 10:30*	*08/14/21 04:41*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 03:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 03:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 03:16	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*08/14/21 09:48*	*08/15/21 03:16*	*1*
o-Terphenyl	*83*		*70 - 130*	*08/14/21 09:48*	*08/15/21 03:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**99.0**		5.01	0.860	mg/Kg			08/16/21 19:01	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-30-4

Date Collected: 08/09/21 14:55
Date Received: 08/12/21 13:46
Sample Depth: - 4

Lab Sample ID: 890-1100-13

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	0.000384	mg/Kg		08/13/21 10:30	08/14/21 05:02	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/13/21 10:30	08/14/21 05:02	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/13/21 10:30	08/14/21 05:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 10:30	08/14/21 05:02	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/13/21 10:30	08/14/21 05:02	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 10:30	08/14/21 05:02	1
Total BTEX	<0.00399	U *- *1	0.00399	0.00101	mg/Kg		08/13/21 10:30	08/14/21 05:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*08/13/21 10:30*	*08/14/21 05:02*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/13/21 10:30*	*08/14/21 05:02*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 03:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 03:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 03:36	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*08/14/21 09:48*	*08/15/21 03:36*	*1*
o-Terphenyl	*88*		*70 - 130*	*08/14/21 09:48*	*08/15/21 03:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**81.9**		4.95	0.850	mg/Kg			08/16/21 19:46	1

Client Sample ID: SB-30-8

Date Collected: 08/09/21 15:05
Date Received: 08/12/21 13:46
Sample Depth: - 8

Lab Sample ID: 890-1100-14

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00178**	**J *- *1**	0.00199	0.000383	mg/Kg		08/13/21 10:30	08/14/21 05:23	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 10:30	08/14/21 05:23	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 10:30	08/14/21 05:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 10:30	08/14/21 05:23	1
o-Xylene	**0.00146**	**J**	0.00199	0.000343	mg/Kg		08/13/21 10:30	08/14/21 05:23	1
Xylenes, Total	**0.00146**	**J**	0.00398	0.00101	mg/Kg		08/13/21 10:30	08/14/21 05:23	1
Total BTEX	**0.00324**	**J *- *1**	0.00398	0.00101	mg/Kg		08/13/21 10:30	08/14/21 05:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*08/13/21 10:30*	*08/14/21 05:23*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/13/21 10:30*	*08/14/21 05:23*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-30-8

Lab Sample ID: 890-1100-14
Matrix: Solid
Date Collected: 08/09/21 15:05
Date Received: 08/12/21 13:46
Sample Depth: - 8

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 03:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 03:57	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 03:57	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 03:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*08/14/21 09:48*	*08/15/21 03:57*	*1*
o-Terphenyl	*101*		*70 - 130*	*08/14/21 09:48*	*08/15/21 03:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2560**		25.2	4.33	mg/Kg			08/16/21 20:03	5

Client Sample ID: SB-30-25

Lab Sample ID: 890-1100-15
Matrix: Solid
Date Collected: 08/09/21 15:25
Date Received: 08/12/21 13:46
Sample Depth: - 25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	0.000385	mg/Kg		08/13/21 10:30	08/14/21 05:43	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 10:30	08/14/21 05:43	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 10:30	08/14/21 05:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 10:30	08/14/21 05:43	1
o-Xylene	**0.000389**	**J**	0.00200	0.000344	mg/Kg		08/13/21 10:30	08/14/21 05:43	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 10:30	08/14/21 05:43	1
Total BTEX	<0.00400	U *- *1	0.00400	0.00101	mg/Kg		08/13/21 10:30	08/14/21 05:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*08/13/21 10:30*	*08/14/21 05:43*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/13/21 10:30*	*08/14/21 05:43*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 04:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 04:17	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 04:17	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 04:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*08/14/21 09:48*	*08/15/21 04:17*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/14/21 09:48*	*08/15/21 04:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**453**		4.97	0.853	mg/Kg			08/16/21 20:09	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-30-30

Lab Sample ID: 890-1100-16
Matrix: Solid
Date Collected: 08/09/21 15:30
Date Received: 08/12/21 13:46
Sample Depth: - 30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	0.000383	mg/Kg		08/13/21 10:30	08/14/21 06:04	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/13/21 10:30	08/14/21 06:04	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/13/21 10:30	08/14/21 06:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 10:30	08/14/21 06:04	1
o-Xylene	**0.000624**	**J**	0.00199	0.000342	mg/Kg		08/13/21 10:30	08/14/21 06:04	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 10:30	08/14/21 06:04	1
Total BTEX	<0.00398	U *- *1	0.00398	0.00100	mg/Kg		08/13/21 10:30	08/14/21 06:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*08/13/21 10:30*	*08/14/21 06:04*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*08/13/21 10:30*	*08/14/21 06:04*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 04:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 04:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 04:38	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 09:48	08/15/21 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*08/14/21 09:48*	*08/15/21 04:38*	*1*
o-Terphenyl	*89*		*70 - 130*	*08/14/21 09:48*	*08/15/21 04:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**354**		4.99	0.857	mg/Kg			08/16/21 20:14	1

Client Sample ID: SB-26-2

Lab Sample ID: 890-1100-17
Matrix: Solid
Date Collected: 08/10/21 11:50
Date Received: 08/12/21 13:46
Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00158**	**J *- *1**	0.00200	0.000384	mg/Kg		08/13/21 10:30	08/14/21 06:25	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/13/21 10:30	08/14/21 06:25	1
Ethylbenzene	**0.000594**	**J**	0.00200	0.000564	mg/Kg		08/13/21 10:30	08/14/21 06:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 10:30	08/14/21 06:25	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/13/21 10:30	08/14/21 06:25	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 10:30	08/14/21 06:25	1
Total BTEX	**0.00217**	**J *- *1**	0.00399	0.00101	mg/Kg		08/13/21 10:30	08/14/21 06:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*08/13/21 10:30*	*08/14/21 06:25*	*1*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*	*08/13/21 10:30*	*08/14/21 06:25*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-26-2

Lab Sample ID: 890-1100-17
Matrix: Solid
Date Collected: 08/10/21 11:50
Date Received: 08/12/21 13:46
Sample Depth: - 2

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 04:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 04:59	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 04:59	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*08/14/21 09:48*	*08/15/21 04:59*	*1*
o-Terphenyl	*85*		*70 - 130*	*08/14/21 09:48*	*08/15/21 04:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**103**		5.00	0.858	mg/Kg			08/16/21 20:20	1

Client Sample ID: SB-26-4

Lab Sample ID: 890-1100-18
Matrix: Solid
Date Collected: 08/10/21 12:00
Date Received: 08/12/21 13:46
Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201	0.000387	mg/Kg		08/13/21 10:30	08/14/21 06:45	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/13/21 10:30	08/14/21 06:45	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		08/13/21 10:30	08/14/21 06:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 10:30	08/14/21 06:45	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		08/13/21 10:30	08/14/21 06:45	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 10:30	08/14/21 06:45	1
Total BTEX	<0.00402	U *- *1	0.00402	0.00101	mg/Kg		08/13/21 10:30	08/14/21 06:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*08/13/21 10:30*	*08/14/21 06:45*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/13/21 10:30*	*08/14/21 06:45*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 05:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 05:20	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 05:20	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/14/21 09:48	08/15/21 05:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*08/14/21 09:48*	*08/15/21 05:20*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/14/21 09:48*	*08/15/21 05:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**105**		4.98	0.855	mg/Kg			08/16/21 20:37	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-26-15

Lab Sample ID: 890-1100-19
Matrix: Solid
Date Collected: 08/10/21 12:20
Date Received: 08/12/21 13:46
Sample Depth: - 15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000784**	**J *- *1**	0.00200	0.000384	mg/Kg		08/13/21 10:30	08/14/21 07:06	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/13/21 10:30	08/14/21 07:06	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/13/21 10:30	08/14/21 07:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 10:30	08/14/21 07:06	1
o-Xylene	**0.000398**	**J**	0.00200	0.000343	mg/Kg		08/13/21 10:30	08/14/21 07:06	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 10:30	08/14/21 07:06	1
Total BTEX	**0.00118**	**J *- *1**	0.00399	0.00101	mg/Kg		08/13/21 10:30	08/14/21 07:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*08/13/21 10:30*	*08/14/21 07:06*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*08/13/21 10:30*	*08/14/21 07:06*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 05:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 05:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 05:40	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 05:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*08/14/21 09:48*	*08/15/21 05:40*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/14/21 09:48*	*08/15/21 05:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1920**		24.8	4.25	mg/Kg			08/16/21 20:42	5

Client Sample ID: SB-26-25

Lab Sample ID: 890-1100-20
Matrix: Solid
Date Collected: 08/10/21 12:35
Date Received: 08/12/21 13:46
Sample Depth: - 25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	0.000386	mg/Kg		08/13/21 10:30	08/14/21 07:27	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		08/13/21 10:30	08/14/21 07:27	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		08/13/21 10:30	08/14/21 07:27	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 10:30	08/14/21 07:27	1
o-Xylene	**0.000362**	**J**	0.00200	0.000345	mg/Kg		08/13/21 10:30	08/14/21 07:27	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 10:30	08/14/21 07:27	1
Total BTEX	<0.00401	U *- *1	0.00401	0.00101	mg/Kg		08/13/21 10:30	08/14/21 07:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*08/13/21 10:30*	*08/14/21 07:27*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/13/21 10:30*	*08/14/21 07:27*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-26-25

Lab Sample ID: 890-1100-20
Matrix: Solid
Date Collected: 08/10/21 12:35
Date Received: 08/12/21 13:46
Sample Depth: - 25

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 06:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 06:01	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 06:01	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/15/21 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*08/14/21 09:48*	*08/15/21 06:01*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/14/21 09:48*	*08/15/21 06:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**529**		5.02	0.862	mg/Kg			08/16/21 20:48	1

Client Sample ID: SB-26-30

Lab Sample ID: 890-1100-21
Matrix: Solid
Date Collected: 08/10/21 12:45
Date Received: 08/12/21 13:46
Sample Depth: - 30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 09:31	08/14/21 06:01	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 09:31	08/14/21 06:01	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 09:31	08/14/21 06:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 09:31	08/14/21 06:01	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 09:31	08/14/21 06:01	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 09:31	08/14/21 06:01	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 09:31	08/14/21 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*08/13/21 09:31*	*08/14/21 06:01*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*08/13/21 09:31*	*08/14/21 06:01*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 12:52	1
Diesel Range Organics (Over C10-C28)	**15.1**	**J**	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 12:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 12:52	1
Total TPH	**15.1**	**J**	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*08/14/21 11:51*	*08/15/21 12:52*	*1*
o-Terphenyl	*116*		*70 - 130*	*08/14/21 11:51*	*08/15/21 12:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**219**		4.98	0.855	mg/Kg			08/16/21 20:53	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-25-2

Date Collected: 08/10/21 13:50
Date Received: 08/12/21 13:46
Sample Depth: - 2

Lab Sample ID: 890-1100-22
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 09:31	08/14/21 06:22	1
Toluene	**0.00106**	**J**	0.00199	0.000454	mg/Kg		08/13/21 09:31	08/14/21 06:22	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 09:31	08/14/21 06:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 09:31	08/14/21 06:22	1
o-Xylene	**0.000468**	**J**	0.00199	0.000343	mg/Kg		08/13/21 09:31	08/14/21 06:22	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 09:31	08/14/21 06:22	1
Total BTEX	**0.00153**	**J**	0.00398	0.00101	mg/Kg		08/13/21 09:31	08/14/21 06:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*08/13/21 09:31*	*08/14/21 06:22*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*08/13/21 09:31*	*08/14/21 06:22*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 13:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 13:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 13:54	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*08/14/21 11:51*	*08/15/21 13:54*	*1*
o-Terphenyl	*101*		*70 - 130*	*08/14/21 11:51*	*08/15/21 13:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**43.6**		5.01	0.860	mg/Kg			08/16/21 20:59	1

Client Sample ID: SB-25-4

Date Collected: 08/10/21 13:55
Date Received: 08/12/21 13:46
Sample Depth: - 4

Lab Sample ID: 890-1100-23
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		08/13/21 09:31	08/14/21 06:42	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		08/13/21 09:31	08/14/21 06:42	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		08/13/21 09:31	08/14/21 06:42	1
m-Xylene & p-Xylene	**0.00112**	**J**	0.00404	0.00102	mg/Kg		08/13/21 09:31	08/14/21 06:42	1
o-Xylene	**0.000510**	**J**	0.00202	0.000347	mg/Kg		08/13/21 09:31	08/14/21 06:42	1
Xylenes, Total	**0.00163**	**J**	0.00404	0.00102	mg/Kg		08/13/21 09:31	08/14/21 06:42	1
Total BTEX	**0.00163**	**J**	0.00404	0.00102	mg/Kg		08/13/21 09:31	08/14/21 06:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*08/13/21 09:31*	*08/14/21 06:42*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*08/13/21 09:31*	*08/14/21 06:42*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-25-4

Date Collected: 08/10/21 13:55
Date Received: 08/12/21 13:46
Sample Depth: - 4

Lab Sample ID: 890-1100-23

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 14:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 14:15	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 14:15	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*08/14/21 11:51*	*08/15/21 14:15*	*1*
o-Terphenyl	*103*		*70 - 130*	*08/14/21 11:51*	*08/15/21 14:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.6**		4.95	0.850	mg/Kg			08/16/21 21:05	1

Client Sample ID: SB-25-15

Date Collected: 08/10/21 14:10
Date Received: 08/12/21 13:46
Sample Depth: - 15

Lab Sample ID: 890-1100-24

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		08/13/21 09:31	08/14/21 07:03	1
Toluene	**0.00109**	**J**	0.00200	0.000457	mg/Kg		08/13/21 09:31	08/14/21 07:03	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		08/13/21 09:31	08/14/21 07:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 09:31	08/14/21 07:03	1
o-Xylene	**0.000538**	**J**	0.00200	0.000345	mg/Kg		08/13/21 09:31	08/14/21 07:03	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 09:31	08/14/21 07:03	1
Total BTEX	**0.00163**	**J**	0.00401	0.00101	mg/Kg		08/13/21 09:31	08/14/21 07:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*08/13/21 09:31*	*08/14/21 07:03*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*08/13/21 09:31*	*08/14/21 07:03*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 14:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 14:36	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 14:36	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*08/14/21 11:51*	*08/15/21 14:36*	*1*
o-Terphenyl	*114*		*70 - 130*	*08/14/21 11:51*	*08/15/21 14:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1170**		5.04	0.865	mg/Kg			08/16/21 21:21	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-25-30

Date Collected: 08/10/21 14:25
Date Received: 08/12/21 13:46
Sample Depth: - 30

Lab Sample ID: 890-1100-25

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		08/13/21 09:31	08/14/21 07:23	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		08/13/21 09:31	08/14/21 07:23	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		08/13/21 09:31	08/14/21 07:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 09:31	08/14/21 07:23	1
o-Xylene	**0.000401**	**J**	0.00200	0.000345	mg/Kg		08/13/21 09:31	08/14/21 07:23	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 09:31	08/14/21 07:23	1
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 09:31	08/14/21 07:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*08/13/21 09:31*	*08/14/21 07:23*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*08/13/21 09:31*	*08/14/21 07:23*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 14:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 14:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 14:57	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*08/14/21 11:51*	*08/15/21 14:57*	*1*
o-Terphenyl	*105*		*70 - 130*	*08/14/21 11:51*	*08/15/21 14:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2330**		25.0	4.28	mg/Kg			08/16/21 21:27	5

Client Sample ID: SB-25-40

Date Collected: 08/10/21 14:35
Date Received: 08/12/21 13:46
Sample Depth: - 40

Lab Sample ID: 890-1100-26

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000393**	**J**	0.00202	0.000388	mg/Kg		08/13/21 09:31	08/14/21 07:44	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		08/13/21 09:31	08/14/21 07:44	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/13/21 09:31	08/14/21 07:44	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 07:44	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/13/21 09:31	08/14/21 07:44	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 07:44	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 07:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*08/13/21 09:31*	*08/14/21 07:44*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*08/13/21 09:31*	*08/14/21 07:44*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-25-40

Lab Sample ID: 890-1100-26
Matrix: Solid
Date Collected: 08/10/21 14:35
Date Received: 08/12/21 13:46
Sample Depth: - 40

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 15:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 15:17	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 15:17	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*08/14/21 11:51*	*08/15/21 15:17*	*1*
o-Terphenyl	*102*		*70 - 130*	*08/14/21 11:51*	*08/15/21 15:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**90.3**		5.00	0.858	mg/Kg			08/16/21 21:44	1

Client Sample ID: SB-25-45

Lab Sample ID: 890-1100-27
Matrix: Solid
Date Collected: 08/10/21 14:55
Date Received: 08/12/21 13:46
Sample Depth: - 45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		08/13/21 09:31	08/14/21 08:04	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		08/13/21 09:31	08/14/21 08:04	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		08/13/21 09:31	08/14/21 08:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		08/13/21 09:31	08/14/21 08:04	1
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg		08/13/21 09:31	08/14/21 08:04	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		08/13/21 09:31	08/14/21 08:04	1
Total BTEX	<0.00402	U	0.00402	0.00102	mg/Kg		08/13/21 09:31	08/14/21 08:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*08/13/21 09:31*	*08/14/21 08:04*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/13/21 09:31*	*08/14/21 08:04*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 15:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 15:38	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 15:38	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*08/14/21 11:51*	*08/15/21 15:38*	*1*
o-Terphenyl	*102*		*70 - 130*	*08/14/21 11:51*	*08/15/21 15:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**63.7**		5.00	0.858	mg/Kg			08/16/21 21:49	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-24-2

Date Collected: 08/10/21 15:05
Date Received: 08/12/21 13:46
Sample Depth: - 2

Lab Sample ID: 890-1100-28

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000449**	**J**	0.00199	0.000383	mg/Kg		08/13/21 09:31	08/14/21 08:24	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 09:31	08/14/21 08:24	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 09:31	08/14/21 08:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 09:31	08/14/21 08:24	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/13/21 09:31	08/14/21 08:24	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 09:31	08/14/21 08:24	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 09:31	08/14/21 08:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*08/13/21 09:31*	*08/14/21 08:24*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*08/13/21 09:31*	*08/14/21 08:24*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 15:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 15:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 15:59	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*08/14/21 11:51*	*08/15/21 15:59*	*1*
o-Terphenyl	*109*		*70 - 130*	*08/14/21 11:51*	*08/15/21 15:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.6**		5.00	0.858	mg/Kg			08/16/21 21:55	1

Client Sample ID: SB-24-4

Date Collected: 08/10/21 15:10
Date Received: 08/12/21 13:46
Sample Depth: - 4

Lab Sample ID: 890-1100-29

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/13/21 09:31	08/14/21 08:45	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/13/21 09:31	08/14/21 08:45	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/13/21 09:31	08/14/21 08:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 09:31	08/14/21 08:45	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/13/21 09:31	08/14/21 08:45	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 09:31	08/14/21 08:45	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 09:31	08/14/21 08:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/13/21 09:31*	*08/14/21 08:45*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/13/21 09:31*	*08/14/21 08:45*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-24-4

Date Collected: 08/10/21 15:10
Date Received: 08/12/21 13:46
Sample Depth: - 4

Lab Sample ID: 890-1100-29

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 16:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 16:20	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 16:20	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*08/14/21 11:51*	*08/15/21 16:20*	*1*
o-Terphenyl	*99*		*70 - 130*	*08/14/21 11:51*	*08/15/21 16:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.8**		4.97	0.853	mg/Kg			08/16/21 22:01	1

Client Sample ID: SB-24-15

Date Collected: 08/10/21 15:30
Date Received: 08/12/21 13:46
Sample Depth: - 15

Lab Sample ID: 890-1100-30

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00446**		0.00201	0.000387	mg/Kg		08/13/21 09:31	08/14/21 09:05	1
Toluene	**0.0205**		0.00201	0.000459	mg/Kg		08/13/21 09:31	08/14/21 09:05	1
Ethylbenzene	**0.00303**		0.00201	0.000568	mg/Kg		08/13/21 09:31	08/14/21 09:05	1
m-Xylene & p-Xylene	**0.0273**		0.00402	0.00102	mg/Kg		08/13/21 09:31	08/14/21 09:05	1
o-Xylene	**0.0215**		0.00201	0.000346	mg/Kg		08/13/21 09:31	08/14/21 09:05	1
Xylenes, Total	**0.0488**		0.00402	0.00102	mg/Kg		08/13/21 09:31	08/14/21 09:05	1
Total BTEX	**0.0768**		0.00402	0.00102	mg/Kg		08/13/21 09:31	08/14/21 09:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*533*	*S1+*	*70 - 130*	*08/13/21 09:31*	*08/14/21 09:05*	*1*
1,4-Difluorobenzene (Surr)	*27*	*S1-*	*70 - 130*	*08/13/21 09:31*	*08/14/21 09:05*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 16:41	1
Diesel Range Organics (Over C10-C28)	**15.1**	**J**	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 16:41	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 16:41	1
Total TPH	**15.1**	**J**	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*08/14/21 11:51*	*08/15/21 16:41*	*1*
o-Terphenyl	*113*		*70 - 130*	*08/14/21 11:51*	*08/15/21 16:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1810**		24.8	4.26	mg/Kg			08/16/21 22:06	5

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-24-25

Lab Sample ID: 890-1100-31
Matrix: Solid
Date Collected: 08/10/21 15:40
Date Received: 08/12/21 13:46
Sample Depth: - 25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 09:31	08/14/21 10:55	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/13/21 09:31	08/14/21 10:55	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/13/21 09:31	08/14/21 10:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 09:31	08/14/21 10:55	1
o-Xylene	**0.000457**	**J**	0.00199	0.000342	mg/Kg		08/13/21 09:31	08/14/21 10:55	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 09:31	08/14/21 10:55	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 09:31	08/14/21 10:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*08/13/21 09:31*	*08/14/21 10:55*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*08/13/21 09:31*	*08/14/21 10:55*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 17:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 17:23	1
Oil Range Organics (Over C28-C36)	**19.7**	**J**	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 17:23	1
Total TPH	**19.7**	**J**	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*08/14/21 11:51*	*08/15/21 17:23*	*1*
o-Terphenyl	*96*		*70 - 130*	*08/14/21 11:51*	*08/15/21 17:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**144**		5.04	0.865	mg/Kg			08/16/21 22:12	1

Client Sample ID: SB-24-30

Lab Sample ID: 890-1100-32
Matrix: Solid
Date Collected: 08/10/21 15:45
Date Received: 08/12/21 13:46
Sample Depth: - 30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		08/13/21 09:31	08/14/21 11:15	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		08/13/21 09:31	08/14/21 11:15	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		08/13/21 09:31	08/14/21 11:15	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 09:31	08/14/21 11:15	1
o-Xylene	**0.000371**	**J**	0.00202	0.000347	mg/Kg		08/13/21 09:31	08/14/21 11:15	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 09:31	08/14/21 11:15	1
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 09:31	08/14/21 11:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*08/13/21 09:31*	*08/14/21 11:15*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*08/13/21 09:31*	*08/14/21 11:15*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-24-30

Lab Sample ID: 890-1100-32
Matrix: Solid
Date Collected: 08/10/21 15:45
Date Received: 08/12/21 13:46
Sample Depth: - 30

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 17:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 17:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 17:44	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*08/14/21 11:51*	*08/15/21 17:44*	*1*
o-Terphenyl	*99*		*70 - 130*	*08/14/21 11:51*	*08/15/21 17:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**99.0**		4.98	0.855	mg/Kg			08/16/21 22:17	1

Client Sample ID: SB-29-2

Lab Sample ID: 890-1100-33
Matrix: Solid
Date Collected: 08/10/21 16:00
Date Received: 08/12/21 13:46
Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		08/13/21 09:31	08/14/21 11:36	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		08/13/21 09:31	08/14/21 11:36	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/13/21 09:31	08/14/21 11:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 11:36	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/13/21 09:31	08/14/21 11:36	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 11:36	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*08/13/21 09:31*	*08/14/21 11:36*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*08/13/21 09:31*	*08/14/21 11:36*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 18:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 18:05	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 18:05	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*08/14/21 11:51*	*08/15/21 18:05*	*1*
o-Terphenyl	*99*		*70 - 130*	*08/14/21 11:51*	*08/15/21 18:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.66**		5.05	0.867	mg/Kg			08/13/21 21:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-29-4

Date Collected: 08/10/21 16:05
Date Received: 08/12/21 13:46
Sample Depth: - 4

Lab Sample ID: 890-1100-34

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		08/13/21 09:31	08/14/21 11:56	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		08/13/21 09:31	08/14/21 11:56	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/13/21 09:31	08/14/21 11:56	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 11:56	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/13/21 09:31	08/14/21 11:56	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 11:56	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*08/13/21 09:31*	*08/14/21 11:56*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*08/13/21 09:31*	*08/14/21 11:56*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 18:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 18:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 18:27	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*08/14/21 11:51*	*08/15/21 18:27*	*1*
o-Terphenyl	*99*		*70 - 130*	*08/14/21 11:51*	*08/15/21 18:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.50**		4.98	0.855	mg/Kg			08/13/21 21:10	1

Client Sample ID: SB-29-10

Date Collected: 08/10/21 16:20
Date Received: 08/12/21 13:46
Sample Depth: - 10

Lab Sample ID: 890-1100-35

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		08/13/21 09:31	08/14/21 12:16	1
Toluene	**0.000634**	**J**	0.00202	0.000460	mg/Kg		08/13/21 09:31	08/14/21 12:16	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/13/21 09:31	08/14/21 12:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 12:16	1
o-Xylene	**0.000456**	**J**	0.00202	0.000347	mg/Kg		08/13/21 09:31	08/14/21 12:16	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 12:16	1
Total BTEX	**0.00109**	**J**	0.00403	0.00102	mg/Kg		08/13/21 09:31	08/14/21 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*08/13/21 09:31*	*08/14/21 12:16*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*08/13/21 09:31*	*08/14/21 12:16*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-29-10

Lab Sample ID: 890-1100-35
Matrix: Solid
Date Collected: 08/10/21 16:20
Date Received: 08/12/21 13:46
Sample Depth: - 10

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 18:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 18:49	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 18:49	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*08/14/21 11:51*	*08/15/21 18:49*	*1*
o-Terphenyl	*97*		*70 - 130*	*08/14/21 11:51*	*08/15/21 18:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**630**	**F1**	5.05	0.867	mg/Kg			08/13/21 21:15	1

Client Sample ID: SB-29-15

Lab Sample ID: 890-1100-36
Matrix: Solid
Date Collected: 08/10/21 16:25
Date Received: 08/12/21 13:46
Sample Depth: - 15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00110**	**J**	0.00200	0.000384	mg/Kg		08/13/21 09:31	08/14/21 12:37	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/13/21 09:31	08/14/21 12:37	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/13/21 09:31	08/14/21 12:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 09:31	08/14/21 12:37	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/13/21 09:31	08/14/21 12:37	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 09:31	08/14/21 12:37	1
Total BTEX	**0.00110**	**J**	0.00399	0.00101	mg/Kg		08/13/21 09:31	08/14/21 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*08/13/21 09:31*	*08/14/21 12:37*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*08/13/21 09:31*	*08/14/21 12:37*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 19:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 19:10	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 19:10	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 11:51	08/15/21 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*08/14/21 11:51*	*08/15/21 19:10*	*1*
o-Terphenyl	*106*		*70 - 130*	*08/14/21 11:51*	*08/15/21 19:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**129**		4.98	0.855	mg/Kg			08/13/21 21:29	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-29-25

Lab Sample ID: 890-1100-37
Matrix: Solid
Date Collected: 08/10/21 16:35
Date Received: 08/12/21 13:46
Sample Depth: - 25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		08/13/21 09:31	08/14/21 12:57	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/13/21 09:31	08/14/21 12:57	1
Ethylbenzene	**0.00123**	**J**	0.00201	0.000567	mg/Kg		08/13/21 09:31	08/14/21 12:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 09:31	08/14/21 12:57	1
o-Xylene	**0.000437**	**J**	0.00201	0.000345	mg/Kg		08/13/21 09:31	08/14/21 12:57	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 09:31	08/14/21 12:57	1
Total BTEX	**0.00167**	**J**	0.00402	0.00101	mg/Kg		08/13/21 09:31	08/14/21 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*08/13/21 09:31*	*08/14/21 12:57*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*08/13/21 09:31*	*08/14/21 12:57*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 19:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 19:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 19:32	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*08/14/21 11:51*	*08/15/21 19:32*	*1*
o-Terphenyl	*93*		*70 - 130*	*08/14/21 11:51*	*08/15/21 19:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**211**		4.95	0.850	mg/Kg			08/13/21 21:34	1

Client Sample ID: SB-22-2

Lab Sample ID: 890-1100-38
Matrix: Solid
Date Collected: 08/11/21 08:45
Date Received: 08/12/21 13:46
Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000529**	**J**	0.00199	0.000383	mg/Kg		08/13/21 09:31	08/14/21 13:18	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 09:31	08/14/21 13:18	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 09:31	08/14/21 13:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 09:31	08/14/21 13:18	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/13/21 09:31	08/14/21 13:18	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 09:31	08/14/21 13:18	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 09:31	08/14/21 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*08/13/21 09:31*	*08/14/21 13:18*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*08/13/21 09:31*	*08/14/21 13:18*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-22-2

Lab Sample ID: 890-1100-38
Matrix: Solid
Date Collected: 08/11/21 08:45
Date Received: 08/12/21 13:46
Sample Depth: - 2

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 19:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 19:54	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 19:54	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/14/21 11:51	08/15/21 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*08/14/21 11:51*	*08/15/21 19:54*	*1*
o-Terphenyl	*104*		*70 - 130*	*08/14/21 11:51*	*08/15/21 19:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**323**		5.00	0.858	mg/Kg			08/13/21 21:49	1

Client Sample ID: SB-22-4

Lab Sample ID: 890-1100-39
Matrix: Solid
Date Collected: 08/11/21 08:50
Date Received: 08/12/21 13:46
Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		08/13/21 09:31	08/14/21 13:38	1
Toluene	**0.000463**	**J**	0.00198	0.000451	mg/Kg		08/13/21 09:31	08/14/21 13:38	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		08/13/21 09:31	08/14/21 13:38	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		08/13/21 09:31	08/14/21 13:38	1
o-Xylene	**0.000516**	**J**	0.00198	0.000341	mg/Kg		08/13/21 09:31	08/14/21 13:38	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		08/13/21 09:31	08/14/21 13:38	1
Total BTEX	<0.00396	U	0.00396	0.00100	mg/Kg		08/13/21 09:31	08/14/21 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*08/13/21 09:31*	*08/14/21 13:38*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*08/13/21 09:31*	*08/14/21 13:38*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 20:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 20:15	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 20:15	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*08/14/21 11:51*	*08/15/21 20:15*	*1*
o-Terphenyl	*96*		*70 - 130*	*08/14/21 11:51*	*08/15/21 20:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**590**		5.00	0.858	mg/Kg			08/13/21 21:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-22-15

Date Collected: 08/11/21 09:20
Date Received: 08/12/21 13:46
Sample Depth: - 15

Lab Sample ID: 890-1100-40
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 09:31	08/14/21 13:59	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 09:31	08/14/21 13:59	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 09:31	08/14/21 13:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 09:31	08/14/21 13:59	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 09:31	08/14/21 13:59	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 09:31	08/14/21 13:59	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 09:31	08/14/21 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/13/21 09:31*	*08/14/21 13:59*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*08/13/21 09:31*	*08/14/21 13:59*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 20:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 20:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 20:37	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*08/14/21 11:51*	*08/15/21 20:37*	*1*
o-Terphenyl	*107*		*70 - 130*	*08/14/21 11:51*	*08/15/21 20:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3830**		25.2	4.33	mg/Kg			08/13/21 21:59	5

Client Sample ID: SB-22-30

Date Collected: 08/11/21 11:40
Date Received: 08/12/21 13:46
Sample Depth: - 30

Lab Sample ID: 890-1100-41
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:34	08/14/21 10:50	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/13/21 08:34	08/14/21 10:50	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/13/21 08:34	08/14/21 10:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:34	08/14/21 10:50	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/13/21 08:34	08/14/21 10:50	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:34	08/14/21 10:50	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:34	08/14/21 10:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/13/21 08:34*	*08/14/21 10:50*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/13/21 08:34*	*08/14/21 10:50*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-22-30

Lab Sample ID: 890-1100-41
Matrix: Solid
Date Collected: 08/11/21 11:40
Date Received: 08/12/21 13:46
Sample Depth: - 30

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 13:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 13:54	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 13:54	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*08/14/21 12:06*	*08/15/21 13:54*	*1*
o-Terphenyl	*106*		*70 - 130*	*08/14/21 12:06*	*08/15/21 13:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1820**		24.9	4.27	mg/Kg			08/13/21 22:04	5

Client Sample ID: SB-22-45

Lab Sample ID: 890-1100-42
Matrix: Solid
Date Collected: 08/11/21 12:20
Date Received: 08/12/21 13:46
Sample Depth: - 45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:34	08/14/21 11:11	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 08:34	08/14/21 11:11	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 08:34	08/14/21 11:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 11:11	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/13/21 08:34	08/14/21 11:11	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 11:11	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*08/13/21 08:34*	*08/14/21 11:11*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/13/21 08:34*	*08/14/21 11:11*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 12:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 12:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 12:52	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*08/14/21 12:06*	*08/15/21 12:52*	*1*
o-Terphenyl	*112*		*70 - 130*	*08/14/21 12:06*	*08/15/21 12:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**185**		4.97	0.853	mg/Kg			08/13/21 22:09	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-22-50

Lab Sample ID: 890-1100-43
Matrix: Solid
Date Collected: 08/11/21 12:35
Date Received: 08/12/21 13:46
Sample Depth: - 50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:34	08/14/21 11:31	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 08:34	08/14/21 11:31	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 08:34	08/14/21 11:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 11:31	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/13/21 08:34	08/14/21 11:31	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 11:31	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*08/13/21 08:34*	*08/14/21 11:31*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/13/21 08:34*	*08/14/21 11:31*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 14:15	1
Diesel Range Organics (Over C10-C28)	**16.8**	**J**	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 14:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 14:15	1
Total TPH	**16.8**	**J**	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*08/14/21 12:06*	*08/15/21 14:15*	*1*
o-Terphenyl	*94*		*70 - 130*	*08/14/21 12:06*	*08/15/21 14:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.6**		4.98	0.855	mg/Kg			08/14/21 02:33	1

Client Sample ID: SB-19-2

Lab Sample ID: 890-1100-44
Matrix: Solid
Date Collected: 08/11/21 12:45
Date Received: 08/12/21 13:46
Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 08:34	08/14/21 11:52	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 08:34	08/14/21 11:52	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 08:34	08/14/21 11:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:34	08/14/21 11:52	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 08:34	08/14/21 11:52	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:34	08/14/21 11:52	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:34	08/14/21 11:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*08/13/21 08:34*	*08/14/21 11:52*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/13/21 08:34*	*08/14/21 11:52*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-19-2

Lab Sample ID: 890-1100-44
Matrix: Solid
Date Collected: 08/11/21 12:45
Date Received: 08/12/21 13:46
Sample Depth: - 2

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 14:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 14:36	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 14:36	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*08/14/21 12:06*	*08/15/21 14:36*	*1*
o-Terphenyl	*99*		*70 - 130*	*08/14/21 12:06*	*08/15/21 14:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**123**		5.00	0.858	mg/Kg			08/14/21 02:39	1

Client Sample ID: SB-19-4

Lab Sample ID: 890-1100-45
Matrix: Solid
Date Collected: 08/11/21 12:50
Date Received: 08/12/21 13:46
Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		08/13/21 08:34	08/14/21 12:12	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		08/13/21 08:34	08/14/21 12:12	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		08/13/21 08:34	08/14/21 12:12	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 08:34	08/14/21 12:12	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/13/21 08:34	08/14/21 12:12	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 08:34	08/14/21 12:12	1
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 08:34	08/14/21 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*08/13/21 08:34*	*08/14/21 12:12*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*08/13/21 08:34*	*08/14/21 12:12*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 14:57	1
Diesel Range Organics (Over C10-C28)	**16.3**	**J**	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 14:57	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 14:57	1
Total TPH	**16.3**	**J**	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*08/14/21 12:06*	*08/15/21 14:57*	*1*
o-Terphenyl	*115*		*70 - 130*	*08/14/21 12:06*	*08/15/21 14:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**129**		5.00	0.858	mg/Kg			08/14/21 02:44	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-19-20

Date Collected: 08/11/21 13:20
Date Received: 08/12/21 13:46
Sample Depth: - 20

Lab Sample ID: 890-1100-46

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/13/21 08:34	08/14/21 12:33	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/13/21 08:34	08/14/21 12:33	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/13/21 08:34	08/14/21 12:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:34	08/14/21 12:33	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/13/21 08:34	08/14/21 12:33	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:34	08/14/21 12:33	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:34	08/14/21 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*08/13/21 08:34*	*08/14/21 12:33*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/13/21 08:34*	*08/14/21 12:33*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 15:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 15:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 15:17	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*08/14/21 12:06*	*08/15/21 15:17*	*1*
o-Terphenyl	*113*		*70 - 130*	*08/14/21 12:06*	*08/15/21 15:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1250**		4.99	0.857	mg/Kg			08/16/21 23:02	1

Client Sample ID: SB-19-45

Date Collected: 08/11/21 14:05
Date Received: 08/12/21 13:46
Sample Depth: - 45

Lab Sample ID: 890-1100-47

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		08/13/21 08:34	08/14/21 12:53	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		08/13/21 08:34	08/14/21 12:53	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		08/13/21 08:34	08/14/21 12:53	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 08:34	08/14/21 12:53	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/13/21 08:34	08/14/21 12:53	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 08:34	08/14/21 12:53	1
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg		08/13/21 08:34	08/14/21 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*08/13/21 08:34*	*08/14/21 12:53*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*08/13/21 08:34*	*08/14/21 12:53*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-19-45

Lab Sample ID: 890-1100-47
Matrix: Solid
Date Collected: 08/11/21 14:05
Date Received: 08/12/21 13:46
Sample Depth: - 45

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 15:38	1
Diesel Range Organics (Over C10-C28)	**20.2**	**J**	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 15:38	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 15:38	1
Total TPH	**20.2**	**J**	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*08/14/21 12:06*	*08/15/21 15:38*	*1*
o-Terphenyl	*107*		*70 - 130*	*08/14/21 12:06*	*08/15/21 15:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**172**		5.05	0.867	mg/Kg			08/16/21 23:19	1

Client Sample ID: SB-19-50

Lab Sample ID: 890-1100-48
Matrix: Solid
Date Collected: 08/11/21 14:15
Date Received: 08/12/21 13:46
Sample Depth: - 50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 08:34	08/14/21 13:13	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 08:34	08/14/21 13:13	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 08:34	08/14/21 13:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:34	08/14/21 13:13	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 08:34	08/14/21 13:13	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:34	08/14/21 13:13	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:34	08/14/21 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*08/13/21 08:34*	*08/14/21 13:13*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/13/21 08:34*	*08/14/21 13:13*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 15:59	1
Diesel Range Organics (Over C10-C28)	**18.5**	**J**	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 15:59	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 15:59	1
Total TPH	**18.5**	**J**	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*08/14/21 12:06*	*08/15/21 15:59*	*1*
o-Terphenyl	*94*		*70 - 130*	*08/14/21 12:06*	*08/15/21 15:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.7**		4.98	0.855	mg/Kg			08/16/21 23:25	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-18-2
Date Collected: 08/11/21 14:20
Date Received: 08/12/21 13:46
Sample Depth: - 2

Lab Sample ID: 890-1100-49
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:34	08/14/21 13:34	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/13/21 08:34	08/14/21 13:34	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/13/21 08:34	08/14/21 13:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:34	08/14/21 13:34	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/13/21 08:34	08/14/21 13:34	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:34	08/14/21 13:34	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:34	08/14/21 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*08/13/21 08:34*	*08/14/21 13:34*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*08/13/21 08:34*	*08/14/21 13:34*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 16:20	1
Diesel Range Organics (Over C10-C28)	**18.0**	**J**	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 16:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 16:20	1
Total TPH	**18.0**	**J**	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*08/14/21 12:06*	*08/15/21 16:20*	*1*
o-Terphenyl	*93*		*70 - 130*	*08/14/21 12:06*	*08/15/21 16:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**97.9**		4.95	0.850	mg/Kg			08/16/21 23:30	1

Client Sample ID: SB-18-4
Date Collected: 08/11/21 14:25
Date Received: 08/12/21 13:46
Sample Depth: - 4

Lab Sample ID: 890-1100-50
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:34	08/14/21 13:54	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 08:34	08/14/21 13:54	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 08:34	08/14/21 13:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 13:54	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/13/21 08:34	08/14/21 13:54	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 13:54	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*08/13/21 08:34*	*08/14/21 13:54*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*08/13/21 08:34*	*08/14/21 13:54*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-18-4

Lab Sample ID: 890-1100-50
Matrix: Solid
Date Collected: 08/11/21 14:25
Date Received: 08/12/21 13:46
Sample Depth: - 4

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 16:41	1
Diesel Range Organics (Over C10-C28)	**20.3**	**J**	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 16:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 16:41	1
Total TPH	**20.3**	**J**	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*08/14/21 12:06*	*08/15/21 16:41*	*1*
o-Terphenyl	*108*		*70 - 130*	*08/14/21 12:06*	*08/15/21 16:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**75.9**		5.04	0.865	mg/Kg			08/16/21 23:36	1

Client Sample ID: SB-18-30

Lab Sample ID: 890-1100-51
Matrix: Solid
Date Collected: 08/11/21 15:20
Date Received: 08/12/21 13:46
Sample Depth: - 30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:34	08/14/21 15:16	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 08:34	08/14/21 15:16	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 08:34	08/14/21 15:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 15:16	1
o-Xylene	**0.000349**	**J**	0.00199	0.000343	mg/Kg		08/13/21 08:34	08/14/21 15:16	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 15:16	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*08/13/21 08:34*	*08/14/21 15:16*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/13/21 08:34*	*08/14/21 15:16*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 17:23	1
Diesel Range Organics (Over C10-C28)	**18.6**	**J**	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 17:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 17:23	1
Total TPH	**18.6**	**J**	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*08/14/21 12:06*	*08/15/21 17:23*	*1*
o-Terphenyl	*96*		*70 - 130*	*08/14/21 12:06*	*08/15/21 17:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7270**		49.8	8.55	mg/Kg			08/16/21 23:53	10

Eurofins Xenco, Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-18-55
Date Collected: 08/11/21 16:25
Date Received: 08/12/21 13:46
Sample Depth: - 55

Lab Sample ID: 890-1100-52
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		08/13/21 08:34	08/14/21 15:37	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		08/13/21 08:34	08/14/21 15:37	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		08/13/21 08:34	08/14/21 15:37	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 08:34	08/14/21 15:37	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/13/21 08:34	08/14/21 15:37	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 08:34	08/14/21 15:37	1
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 08:34	08/14/21 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*08/13/21 08:34*	*08/14/21 15:37*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/13/21 08:34*	*08/14/21 15:37*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 17:44	1
Diesel Range Organics (Over C10-C28)	**16.5**	**J**	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 17:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 17:44	1
Total TPH	**16.5**	**J**	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*08/14/21 12:06*	*08/15/21 17:44*	*1*
o-Terphenyl	*105*		*70 - 130*	*08/14/21 12:06*	*08/15/21 17:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**825**		4.95	0.850	mg/Kg			08/16/21 23:58	1

Client Sample ID: SB-18-60
Date Collected: 08/11/21 16:40
Date Received: 08/12/21 13:46
Sample Depth: - 60

Lab Sample ID: 890-1100-53
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		08/13/21 08:34	08/14/21 15:57	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/13/21 08:34	08/14/21 15:57	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		08/13/21 08:34	08/14/21 15:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 08:34	08/14/21 15:57	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		08/13/21 08:34	08/14/21 15:57	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 08:34	08/14/21 15:57	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 08:34	08/14/21 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*08/13/21 08:34*	*08/14/21 15:57*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/13/21 08:34*	*08/14/21 15:57*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-18-60

Lab Sample ID: 890-1100-53
Matrix: Solid
Date Collected: 08/11/21 16:40
Date Received: 08/12/21 13:46
Sample Depth: - 60

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 18:05	1
Diesel Range Organics (Over C10-C28)	**15.7**	**J**	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 18:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 18:05	1
Total TPH	**15.7**	**J**	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*08/14/21 12:06*	*08/15/21 18:05*	*1*
o-Terphenyl	*127*		*70 - 130*	*08/14/21 12:06*	*08/15/21 18:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**741**		5.00	0.858	mg/Kg			08/17/21 00:04	1

Client Sample ID: SB-21A-2

Lab Sample ID: 890-1100-54
Matrix: Solid
Date Collected: 08/11/21 16:50
Date Received: 08/12/21 13:46
Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		08/13/21 08:34	08/14/21 16:18	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/13/21 08:34	08/14/21 16:18	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		08/13/21 08:34	08/14/21 16:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 08:34	08/14/21 16:18	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		08/13/21 08:34	08/14/21 16:18	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 08:34	08/14/21 16:18	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 08:34	08/14/21 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*08/13/21 08:34*	*08/14/21 16:18*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/13/21 08:34*	*08/14/21 16:18*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 18:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 18:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 18:27	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*08/14/21 12:06*	*08/15/21 18:27*	*1*
o-Terphenyl	*115*		*70 - 130*	*08/14/21 12:06*	*08/15/21 18:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**778**		4.97	0.853	mg/Kg			08/17/21 00:10	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21A-4

Date Collected: 08/11/21 16:55
Date Received: 08/12/21 13:46
Sample Depth: - 4

Lab Sample ID: 890-1100-55

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:34	08/14/21 16:38	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/13/21 08:34	08/14/21 16:38	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/13/21 08:34	08/14/21 16:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:34	08/14/21 16:38	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/13/21 08:34	08/14/21 16:38	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:34	08/14/21 16:38	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:34	08/14/21 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*08/13/21 08:34*	*08/14/21 16:38*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*08/13/21 08:34*	*08/14/21 16:38*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 18:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 18:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 18:49	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*08/14/21 12:06*	*08/15/21 18:49*	*1*
o-Terphenyl	*104*		*70 - 130*	*08/14/21 12:06*	*08/15/21 18:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**692**		5.00	0.858	mg/Kg			08/17/21 00:15	1

Client Sample ID: SB-21A-15

Date Collected: 08/11/21 17:20
Date Received: 08/12/21 13:46
Sample Depth: - 15

Lab Sample ID: 890-1100-56

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:34	08/14/21 16:59	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 08:34	08/14/21 16:59	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 08:34	08/14/21 16:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 16:59	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/13/21 08:34	08/14/21 16:59	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 16:59	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*08/13/21 08:34*	*08/14/21 16:59*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/13/21 08:34*	*08/14/21 16:59*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21A-15

Lab Sample ID: 890-1100-56
Matrix: Solid
Date Collected: 08/11/21 17:20
Date Received: 08/12/21 13:46
Sample Depth: - 15

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 19:10	1
Diesel Range Organics (Over C10-C28)	**15.8**	**J**	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 19:10	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 19:10	1
Total TPH	**15.8**	**J**	49.9	15.0	mg/Kg		08/14/21 12:06	08/15/21 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*08/14/21 12:06*	*08/15/21 19:10*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/14/21 12:06*	*08/15/21 19:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7080**	**F1**	49.6	8.51	mg/Kg			08/17/21 00:21	10

Client Sample ID: SB-21A-35

Lab Sample ID: 890-1100-57
Matrix: Solid
Date Collected: 08/11/21 17:50
Date Received: 08/12/21 13:46
Sample Depth: - 35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		08/13/21 08:34	08/14/21 17:19	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		08/13/21 08:34	08/14/21 17:19	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		08/13/21 08:34	08/14/21 17:19	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 08:34	08/14/21 17:19	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/13/21 08:34	08/14/21 17:19	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 08:34	08/14/21 17:19	1
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 08:34	08/14/21 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*08/13/21 08:34*	*08/14/21 17:19*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/13/21 08:34*	*08/14/21 17:19*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 19:32	1
Diesel Range Organics (Over C10-C28)	**16.3**	**J**	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 19:32	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 19:32	1
Total TPH	**16.3**	**J**	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*08/14/21 12:06*	*08/15/21 19:32*	*1*
o-Terphenyl	*101*		*70 - 130*	*08/14/21 12:06*	*08/15/21 19:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9180**		50.0	8.58	mg/Kg			08/17/21 00:38	10

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21A-55

Lab Sample ID: 890-1100-58
Matrix: Solid
Date Collected: 08/11/21 18:50
Date Received: 08/12/21 13:46
Sample Depth: - 55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		08/13/21 08:34	08/14/21 17:39	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/13/21 08:34	08/14/21 17:39	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		08/13/21 08:34	08/14/21 17:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 08:34	08/14/21 17:39	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		08/13/21 08:34	08/14/21 17:39	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 08:34	08/14/21 17:39	1
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 08:34	08/14/21 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*08/13/21 08:34*	*08/14/21 17:39*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/13/21 08:34*	*08/14/21 17:39*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 19:54	1
Diesel Range Organics (Over C10-C28)	**15.4**	**J**	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 19:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 19:54	1
Total TPH	**15.4**	**J**	49.8	14.9	mg/Kg		08/14/21 12:06	08/15/21 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*08/14/21 12:06*	*08/15/21 19:54*	*1*
o-Terphenyl	*102*		*70 - 130*	*08/14/21 12:06*	*08/15/21 19:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**272**		5.05	0.867	mg/Kg			08/17/21 00:43	1

Client Sample ID: SB-21A-60

Lab Sample ID: 890-1100-59
Matrix: Solid
Date Collected: 08/11/21 19:00
Date Received: 08/12/21 13:46
Sample Depth: - 60

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/13/21 08:34	08/14/21 18:00	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/13/21 08:34	08/14/21 18:00	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/13/21 08:34	08/14/21 18:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:34	08/14/21 18:00	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/13/21 08:34	08/14/21 18:00	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:34	08/14/21 18:00	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:34	08/14/21 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*08/13/21 08:34*	*08/14/21 18:00*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/13/21 08:34*	*08/14/21 18:00*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21A-60

Lab Sample ID: 890-1100-59
Matrix: Solid
Date Collected: 08/11/21 19:00
Date Received: 08/12/21 13:46
Sample Depth: - 60

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 20:15	1
Diesel Range Organics (Over C10-C28)	**15.7**	**J**	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 20:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 20:15	1
Total TPH	**15.7**	**J**	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*08/14/21 12:06*	*08/15/21 20:15*	*1*
o-Terphenyl	*96*		*70 - 130*	*08/14/21 12:06*	*08/15/21 20:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**77.8**		5.01	0.860	mg/Kg			08/17/21 01:00	1

Client Sample ID: SB-28-2

Lab Sample ID: 890-1100-60
Matrix: Solid
Date Collected: 08/10/21 10:20
Date Received: 08/12/21 13:46
Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:34	08/14/21 18:20	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 08:34	08/14/21 18:20	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 08:34	08/14/21 18:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 18:20	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/13/21 08:34	08/14/21 18:20	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 18:20	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:34	08/14/21 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*08/13/21 08:34*	*08/14/21 18:20*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/13/21 08:34*	*08/14/21 18:20*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 20:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 20:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 20:37	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*08/14/21 12:06*	*08/15/21 20:37*	*1*
o-Terphenyl	*83*		*70 - 130*	*08/14/21 12:06*	*08/15/21 20:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**356**		4.98	0.855	mg/Kg			08/17/21 01:06	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-28-4

Date Collected: 08/10/21 10:25
Date Received: 08/12/21 13:46
Sample Depth: - 4

Lab Sample ID: 890-1100-61

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:46	08/14/21 13:44	1
Toluene	**0.000535**	**J**	0.00199	0.000454	mg/Kg		08/13/21 08:46	08/14/21 13:44	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 08:46	08/14/21 13:44	1
m-Xylene & p-Xylene	**0.00102**	**J**	0.00398	0.00101	mg/Kg		08/13/21 08:46	08/14/21 13:44	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/13/21 08:46	08/14/21 13:44	1
Xylenes, Total	**0.00102**	**J**	0.00398	0.00101	mg/Kg		08/13/21 08:46	08/14/21 13:44	1
Total BTEX	**0.00156**	**J**	0.00398	0.00101	mg/Kg		08/13/21 08:46	08/14/21 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/13/21 08:46*	*08/14/21 13:44*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/13/21 08:46*	*08/14/21 13:44*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 12:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 12:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 12:15	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*08/14/21 12:26*	*08/15/21 12:15*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/14/21 12:26*	*08/15/21 12:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**357**		4.95	0.850	mg/Kg			08/17/21 01:11	1

Client Sample ID: SB-28-20

Date Collected: 08/10/21 10:50
Date Received: 08/12/21 13:46
Sample Depth: - 20

Lab Sample ID: 890-1100-62

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		08/13/21 08:46	08/14/21 14:05	1
Toluene	**0.00100**	**J**	0.00200	0.000457	mg/Kg		08/13/21 08:46	08/14/21 14:05	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		08/13/21 08:46	08/14/21 14:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 08:46	08/14/21 14:05	1
o-Xylene	**0.000387**	**J**	0.00200	0.000345	mg/Kg		08/13/21 08:46	08/14/21 14:05	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 08:46	08/14/21 14:05	1
Total BTEX	**0.00139**	**J**	0.00401	0.00101	mg/Kg		08/13/21 08:46	08/14/21 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*08/13/21 08:46*	*08/14/21 14:05*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/13/21 08:46*	*08/14/21 14:05*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-28-20

Lab Sample ID: 890-1100-62
Matrix: Solid
Date Collected: 08/10/21 10:50
Date Received: 08/12/21 13:46
Sample Depth: - 20

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 13:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 13:18	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 13:18	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*08/14/21 12:26*	*08/15/21 13:18*	*1*
o-Terphenyl	*85*		*70 - 130*	*08/14/21 12:26*	*08/15/21 13:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3310**		25.3	4.33	mg/Kg			08/17/21 01:17	5

Client Sample ID: SB-28-25

Lab Sample ID: 890-1100-63
Matrix: Solid
Date Collected: 08/10/21 10:55
Date Received: 08/12/21 13:46
Sample Depth: - 25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/13/21 08:46	08/14/21 14:25	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/13/21 08:46	08/14/21 14:25	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/13/21 08:46	08/14/21 14:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:46	08/14/21 14:25	1
o-Xylene	**0.000343**	**J**	0.00200	0.000343	mg/Kg		08/13/21 08:46	08/14/21 14:25	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:46	08/14/21 14:25	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:46	08/14/21 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*08/13/21 08:46*	*08/14/21 14:25*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*08/13/21 08:46*	*08/14/21 14:25*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 13:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 13:40	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 13:40	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*08/14/21 12:26*	*08/15/21 13:40*	*1*
o-Terphenyl	*78*		*70 - 130*	*08/14/21 12:26*	*08/15/21 13:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2440**		24.9	4.27	mg/Kg			08/17/21 01:22	5

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-28-40

Date Collected: 08/10/21 11:30
Date Received: 08/12/21 13:46
Sample Depth: - 40

Lab Sample ID: 890-1100-64
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 08:46	08/14/21 14:46	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 08:46	08/14/21 14:46	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 08:46	08/14/21 14:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 14:46	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 08:46	08/14/21 14:46	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 14:46	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*08/13/21 08:46*	*08/14/21 14:46*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*08/13/21 08:46*	*08/14/21 14:46*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 14:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 14:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 14:01	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*08/14/21 12:26*	*08/15/21 14:01*	*1*
o-Terphenyl	*84*		*70 - 130*	*08/14/21 12:26*	*08/15/21 14:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**580**		5.00	0.858	mg/Kg			08/17/21 01:28	1

Client Sample ID: SB-28-45

Date Collected: 08/10/21 11:45
Date Received: 08/12/21 13:46
Sample Depth: - 45

Lab Sample ID: 890-1100-65
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 08:46	08/14/21 15:07	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 08:46	08/14/21 15:07	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 08:46	08/14/21 15:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 15:07	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 08:46	08/14/21 15:07	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 15:07	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*08/13/21 08:46*	*08/14/21 15:07*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*08/13/21 08:46*	*08/14/21 15:07*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-28-45

Lab Sample ID: 890-1100-65
Matrix: Solid
Date Collected: 08/10/21 11:45
Date Received: 08/12/21 13:46
Sample Depth: - 45

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 14:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 14:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 14:22	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*08/14/21 12:26*	*08/15/21 14:22*	*1*
o-Terphenyl	*84*		*70 - 130*	*08/14/21 12:26*	*08/15/21 14:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**308**		5.00	0.858	mg/Kg			08/17/21 01:34	1

Client Sample ID: SB-40A-2

Lab Sample ID: 890-1100-66
Matrix: Solid
Date Collected: 08/12/21 08:05
Date Received: 08/12/21 13:46
Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		08/13/21 08:46	08/14/21 15:28	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		08/13/21 08:46	08/14/21 15:28	1
Ethylbenzene	**0.00132**	**J**	0.00202	0.000571	mg/Kg		08/13/21 08:46	08/14/21 15:28	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 08:46	08/14/21 15:28	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/13/21 08:46	08/14/21 15:28	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		08/13/21 08:46	08/14/21 15:28	1
Total BTEX	**0.00132**	**J**	0.00404	0.00102	mg/Kg		08/13/21 08:46	08/14/21 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*08/13/21 08:46*	*08/14/21 15:28*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*08/13/21 08:46*	*08/14/21 15:28*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 14:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 14:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 14:44	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*08/14/21 12:26*	*08/15/21 14:44*	*1*
o-Terphenyl	*77*		*70 - 130*	*08/14/21 12:26*	*08/15/21 14:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.1**		4.98	0.855	mg/Kg			08/17/21 02:18	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-40A-4

Lab Sample ID: 890-1100-67
Matrix: Solid
Date Collected: 08/12/21 08:10
Date Received: 08/12/21 13:46
Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		08/13/21 08:46	08/14/21 15:48	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		08/13/21 08:46	08/14/21 15:48	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		08/13/21 08:46	08/14/21 15:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 08:46	08/14/21 15:48	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		08/13/21 08:46	08/14/21 15:48	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 08:46	08/14/21 15:48	1
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg		08/13/21 08:46	08/14/21 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*08/13/21 08:46*	*08/14/21 15:48*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*08/13/21 08:46*	*08/14/21 15:48*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 15:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 15:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 15:05	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*08/14/21 12:26*	*08/15/21 15:05*	*1*
o-Terphenyl	*77*		*70 - 130*	*08/14/21 12:26*	*08/15/21 15:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.9**		5.04	0.865	mg/Kg			08/17/21 08:18	1

Client Sample ID: SB-40A-10

Lab Sample ID: 890-1100-68
Matrix: Solid
Date Collected: 08/12/21 08:40
Date Received: 08/12/21 13:46
Sample Depth: - 10

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000527**	**J**	0.00201	0.000387	mg/Kg		08/13/21 08:46	08/14/21 16:09	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		08/13/21 08:46	08/14/21 16:09	1
Ethylbenzene	**0.00111**	**J**	0.00201	0.000567	mg/Kg		08/13/21 08:46	08/14/21 16:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 08:46	08/14/21 16:09	1
o-Xylene	**0.000603**	**J**	0.00201	0.000345	mg/Kg		08/13/21 08:46	08/14/21 16:09	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		08/13/21 08:46	08/14/21 16:09	1
Total BTEX	**0.00224**	**J**	0.00402	0.00101	mg/Kg		08/13/21 08:46	08/14/21 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*08/13/21 08:46*	*08/14/21 16:09*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/13/21 08:46*	*08/14/21 16:09*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-40A-10

Lab Sample ID: 890-1100-68
Matrix: Solid
Date Collected: 08/12/21 08:40
Date Received: 08/12/21 13:46
Sample Depth: - 10

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 15:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 15:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 15:26	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*08/14/21 12:26*	*08/15/21 15:26*	*1*
o-Terphenyl	*82*		*70 - 130*	*08/14/21 12:26*	*08/15/21 15:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		5.01	0.860	mg/Kg			08/17/21 08:23	1

Client Sample ID: SB-40A-20

Lab Sample ID: 890-1100-69
Matrix: Solid
Date Collected: 08/12/21 08:50
Date Received: 08/12/21 13:46
Sample Depth: - 20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00161**	**J**	0.00201	0.000387	mg/Kg		08/13/21 08:46	08/14/21 16:30	1
Toluene	**0.00287**		0.00201	0.000458	mg/Kg		08/13/21 08:46	08/14/21 16:30	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		08/13/21 08:46	08/14/21 16:30	1
m-Xylene & p-Xylene	**0.00126**	**J**	0.00402	0.00101	mg/Kg		08/13/21 08:46	08/14/21 16:30	1
o-Xylene	**0.000887**	**J**	0.00201	0.000345	mg/Kg		08/13/21 08:46	08/14/21 16:30	1
Xylenes, Total	**0.00215**	**J**	0.00402	0.00101	mg/Kg		08/13/21 08:46	08/14/21 16:30	1
Total BTEX	**0.00663**		0.00402	0.00101	mg/Kg		08/13/21 08:46	08/14/21 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*08/13/21 08:46*	*08/14/21 16:30*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/13/21 08:46*	*08/14/21 16:30*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 15:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 15:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 15:48	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*08/14/21 12:26*	*08/15/21 15:48*	*1*
o-Terphenyl	*89*		*70 - 130*	*08/14/21 12:26*	*08/15/21 15:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**398**		4.97	0.853	mg/Kg			08/17/21 08:29	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-40A-25

Lab Sample ID: 890-1100-70
Matrix: Solid
Date Collected: 08/12/21 08:55
Date Received: 08/12/21 13:46
Sample Depth: - 25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00427**		0.00200	0.000384	mg/Kg		08/13/21 08:46	08/14/21 16:51	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/13/21 08:46	08/14/21 16:51	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/13/21 08:46	08/14/21 16:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:46	08/14/21 16:51	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/13/21 08:46	08/14/21 16:51	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:46	08/14/21 16:51	1
Total BTEX	**0.00427**		0.00399	0.00101	mg/Kg		08/13/21 08:46	08/14/21 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*142*	*S1+*	*70 - 130*	*08/13/21 08:46*	*08/14/21 16:51*	*1*
1,4-Difluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*08/13/21 08:46*	*08/14/21 16:51*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 16:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 16:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 16:09	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*08/14/21 12:26*	*08/15/21 16:09*	*1*
o-Terphenyl	*72*		*70 - 130*	*08/14/21 12:26*	*08/15/21 16:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**148**		4.95	0.850	mg/Kg			08/17/21 08:35	1

Client Sample ID: SB-27A-2

Lab Sample ID: 890-1100-71
Matrix: Solid
Date Collected: 08/12/21 09:10
Date Received: 08/12/21 13:46
Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00130**	**J**	0.00200	0.000385	mg/Kg		08/13/21 08:46	08/14/21 18:17	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 08:46	08/14/21 18:17	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 08:46	08/14/21 18:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 18:17	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 08:46	08/14/21 18:17	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 18:17	1
Total BTEX	**0.00130**	**J**	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*08/13/21 08:46*	*08/14/21 18:17*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*08/13/21 08:46*	*08/14/21 18:17*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-27A-2

Lab Sample ID: 890-1100-71
Matrix: Solid
Date Collected: 08/12/21 09:10
Date Received: 08/12/21 13:46
Sample Depth: - 2

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 16:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 16:51	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 16:51	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*08/14/21 12:26*	*08/15/21 16:51*	*1*
o-Terphenyl	*83*		*70 - 130*	*08/14/21 12:26*	*08/15/21 16:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.2**		4.95	0.850	mg/Kg			08/17/21 08:51	1

Client Sample ID: SB-27A-4

Lab Sample ID: 890-1100-72
Matrix: Solid
Date Collected: 08/12/21 09:15
Date Received: 08/12/21 13:46
Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00244**		0.00199	0.000383	mg/Kg		08/13/21 08:46	08/14/21 18:37	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/13/21 08:46	08/14/21 18:37	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/13/21 08:46	08/14/21 18:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:46	08/14/21 18:37	1
o-Xylene	**0.000917**	**J**	0.00199	0.000342	mg/Kg		08/13/21 08:46	08/14/21 18:37	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:46	08/14/21 18:37	1
Total BTEX	**0.00336**	**J**	0.00398	0.00100	mg/Kg		08/13/21 08:46	08/14/21 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*08/13/21 08:46*	*08/14/21 18:37*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/13/21 08:46*	*08/14/21 18:37*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 17:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 17:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 17:13	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*08/14/21 12:26*	*08/15/21 17:13*	*1*
o-Terphenyl	*75*		*70 - 130*	*08/14/21 12:26*	*08/15/21 17:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.4**		5.04	0.865	mg/Kg			08/17/21 08:57	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-27A-10

Lab Sample ID: 890-1100-73
Matrix: Solid
Date Collected: 08/12/21 09:40
Date Received: 08/12/21 13:46
Sample Depth: - 10

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00282**		0.00201	0.000387	mg/Kg		08/13/21 08:46	08/14/21 18:58	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		08/13/21 08:46	08/14/21 18:58	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		08/13/21 08:46	08/14/21 18:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		08/13/21 08:46	08/14/21 18:58	1
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg		08/13/21 08:46	08/14/21 18:58	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		08/13/21 08:46	08/14/21 18:58	1
Total BTEX	**0.00282**	**J**	0.00402	0.00102	mg/Kg		08/13/21 08:46	08/14/21 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*08/13/21 08:46*	*08/14/21 18:58*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/13/21 08:46*	*08/14/21 18:58*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 17:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 17:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 17:34	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*08/14/21 12:26*	*08/15/21 17:34*	*1*
o-Terphenyl	*85*		*70 - 130*	*08/14/21 12:26*	*08/15/21 17:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**90.0**		4.98	0.855	mg/Kg			08/17/21 09:03	1

Client Sample ID: SB-27A-15

Lab Sample ID: 890-1100-74
Matrix: Solid
Date Collected: 08/12/21 09:45
Date Received: 08/12/21 13:46
Sample Depth: - 15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:46	08/14/21 19:19	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 08:46	08/14/21 19:19	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 08:46	08/14/21 19:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:46	08/14/21 19:19	1
o-Xylene	**0.000440**	**J**	0.00199	0.000343	mg/Kg		08/13/21 08:46	08/14/21 19:19	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:46	08/14/21 19:19	1
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg		08/13/21 08:46	08/14/21 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*08/13/21 08:46*	*08/14/21 19:19*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/13/21 08:46*	*08/14/21 19:19*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-27A-15

Lab Sample ID: 890-1100-74
Matrix: Solid
Date Collected: 08/12/21 09:45
Date Received: 08/12/21 13:46
Sample Depth: - 15

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 17:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 17:55	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 17:55	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*08/14/21 12:26*	*08/15/21 17:55*	*1*
o-Terphenyl	*78*		*70 - 130*	*08/14/21 12:26*	*08/15/21 17:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**231**		4.95	0.850	mg/Kg			08/17/21 09:08	1

Client Sample ID: SB-27A-20

Lab Sample ID: 890-1100-75
Matrix: Solid
Date Collected: 08/12/21 09:50
Date Received: 08/12/21 13:46
Sample Depth: - 20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:46	08/14/21 19:40	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		08/13/21 08:46	08/14/21 19:40	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		08/13/21 08:46	08/14/21 19:40	1
m-Xylene & p-Xylene	**0.00203**	**J**	0.00398	0.00101	mg/Kg		08/13/21 08:46	08/14/21 19:40	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		08/13/21 08:46	08/14/21 19:40	1
Xylenes, Total	**0.00203**	**J**	0.00398	0.00101	mg/Kg		08/13/21 08:46	08/14/21 19:40	1
Total BTEX	**0.00203**	**J**	0.00398	0.00101	mg/Kg		08/13/21 08:46	08/14/21 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*08/13/21 08:46*	*08/14/21 19:40*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/13/21 08:46*	*08/14/21 19:40*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 18:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 18:17	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 18:17	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*08/14/21 12:26*	*08/15/21 18:17*	*1*
o-Terphenyl	*70*		*70 - 130*	*08/14/21 12:26*	*08/15/21 18:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**224**		5.05	0.867	mg/Kg			08/17/21 09:14	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21B-2

Lab Sample ID: 890-1100-76
Matrix: Solid
Date Collected: 08/12/21 10:00
Date Received: 08/12/21 13:46
Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00244**		0.00198	0.000382	mg/Kg		08/13/21 08:46	08/14/21 20:01	1
Toluene	<0.00198	U	0.00198	0.000452	mg/Kg		08/13/21 08:46	08/14/21 20:01	1
Ethylbenzene	<0.00198	U	0.00198	0.000561	mg/Kg		08/13/21 08:46	08/14/21 20:01	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00100	mg/Kg		08/13/21 08:46	08/14/21 20:01	1
o-Xylene	**0.000700**	**J**	0.00198	0.000341	mg/Kg		08/13/21 08:46	08/14/21 20:01	1
Xylenes, Total	<0.00397	U	0.00397	0.00100	mg/Kg		08/13/21 08:46	08/14/21 20:01	1
Total BTEX	**0.00314**	**J**	0.00397	0.00100	mg/Kg		08/13/21 08:46	08/14/21 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*08/13/21 08:46*	*08/14/21 20:01*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*08/13/21 08:46*	*08/14/21 20:01*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 18:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 18:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 18:38	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/14/21 12:26	08/15/21 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*56*	*S1-*	*70 - 130*	*08/14/21 12:26*	*08/15/21 18:38*	*1*
o-Terphenyl	*54*	*S1-*	*70 - 130*	*08/14/21 12:26*	*08/15/21 18:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.9**		5.01	0.860	mg/Kg			08/17/21 09:19	1

Client Sample ID: SB-21B-4

Lab Sample ID: 890-1100-77
Matrix: Solid
Date Collected: 08/12/21 10:05
Date Received: 08/12/21 13:46
Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 08:46	08/14/21 20:21	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 08:46	08/14/21 20:21	1
Ethylbenzene	**0.00147**	**J**	0.00200	0.000565	mg/Kg		08/13/21 08:46	08/14/21 20:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 20:21	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 08:46	08/14/21 20:21	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 20:21	1
Total BTEX	**0.00147**	**J**	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*08/13/21 08:46*	*08/14/21 20:21*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/13/21 08:46*	*08/14/21 20:21*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21B-4

Lab Sample ID: 890-1100-77
Matrix: Solid
Date Collected: 08/12/21 10:05
Date Received: 08/12/21 13:46
Sample Depth: - 4

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 19:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 19:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 19:00	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*59*	*S1-*	*70 - 130*	*08/14/21 12:26*	*08/15/21 19:00*	*1*
o-Terphenyl	*59*	*S1-*	*70 - 130*	*08/14/21 12:26*	*08/15/21 19:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.9**		4.98	0.855	mg/Kg			08/17/21 09:36	1

Client Sample ID: SB-21B-6

Lab Sample ID: 890-1100-78
Matrix: Solid
Date Collected: 08/12/21 10:20
Date Received: 08/12/21 13:46
Sample Depth: - 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/13/21 08:46	08/14/21 20:42	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/13/21 08:46	08/14/21 20:42	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/13/21 08:46	08/14/21 20:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:46	08/14/21 20:42	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/13/21 08:46	08/14/21 20:42	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:46	08/14/21 20:42	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/13/21 08:46	08/14/21 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/13/21 08:46*	*08/14/21 20:42*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*08/13/21 08:46*	*08/14/21 20:42*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 19:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 19:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 19:22	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/14/21 12:26	08/15/21 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*65*	*S1-*	*70 - 130*	*08/14/21 12:26*	*08/15/21 19:22*	*1*
o-Terphenyl	*72*		*70 - 130*	*08/14/21 12:26*	*08/15/21 19:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1790**		24.8	4.25	mg/Kg			08/17/21 09:42	5

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21B-15

Lab Sample ID: 890-1100-79
Matrix: Solid
Date Collected: 08/12/21 10:35
Date Received: 08/12/21 13:46
Sample Depth: - 15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000636**	**J**	0.00200	0.000384	mg/Kg		08/13/21 08:46	08/14/21 21:03	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/13/21 08:46	08/14/21 21:03	1
Ethylbenzene	**0.000761**	**J**	0.00200	0.000564	mg/Kg		08/13/21 08:46	08/14/21 21:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:46	08/14/21 21:03	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/13/21 08:46	08/14/21 21:03	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:46	08/14/21 21:03	1
Total BTEX	**0.00140**	**J**	0.00399	0.00101	mg/Kg		08/13/21 08:46	08/14/21 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*08/13/21 08:46*	*08/14/21 21:03*	*1*
1,4-Difluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*08/13/21 08:46*	*08/14/21 21:03*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 19:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 19:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 19:43	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*08/14/21 12:26*	*08/15/21 19:43*	*1*
o-Terphenyl	*80*		*70 - 130*	*08/14/21 12:26*	*08/15/21 19:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**144**		4.97	0.853	mg/Kg			08/17/21 09:59	1

Client Sample ID: SB-21B-20

Lab Sample ID: 890-1100-80
Matrix: Solid
Date Collected: 08/12/21 10:40
Date Received: 08/12/21 13:46
Sample Depth: - 20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00107**	**J**	0.00200	0.000384	mg/Kg		08/13/21 08:47	08/14/21 21:24	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/13/21 08:47	08/14/21 21:24	1
Ethylbenzene	**0.000844**	**J**	0.00200	0.000564	mg/Kg		08/13/21 08:47	08/14/21 21:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:47	08/14/21 21:24	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/13/21 08:47	08/14/21 21:24	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/13/21 08:47	08/14/21 21:24	1
Total BTEX	**0.00191**	**J**	0.00399	0.00101	mg/Kg		08/13/21 08:47	08/14/21 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*08/13/21 08:47*	*08/14/21 21:24*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/13/21 08:47*	*08/14/21 21:24*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21B-20

Lab Sample ID: 890-1100-80
Matrix: Solid
Date Collected: 08/12/21 10:40
Date Received: 08/12/21 13:46
Sample Depth: - 20

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 20:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 20:04	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 20:04	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*62*	*S1-*	*70 - 130*	*08/14/21 12:26*	*08/15/21 20:04*	*1*
o-Terphenyl	*64*	*S1-*	*70 - 130*	*08/14/21 12:26*	*08/15/21 20:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**189**		5.00	0.858	mg/Kg			08/17/21 10:04	1

Client Sample ID: SB-21C-2

Lab Sample ID: 890-1100-81
Matrix: Solid
Date Collected: 08/12/21 11:20
Date Received: 08/12/21 13:46
Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200	0.000384	mg/Kg		08/14/21 10:00	08/14/21 21:44	1
Toluene	<0.00200	U F2 F1	0.00200	0.000455	mg/Kg		08/14/21 10:00	08/14/21 21:44	1
Ethylbenzene	<0.00200	U F2 F1	0.00200	0.000564	mg/Kg		08/14/21 10:00	08/14/21 21:44	1
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.00399	0.00101	mg/Kg		08/14/21 10:00	08/14/21 21:44	1
o-Xylene	<0.00200	U F2 F1	0.00200	0.000343	mg/Kg		08/14/21 10:00	08/14/21 21:44	1
Xylenes, Total	<0.00399	U F2 F1	0.00399	0.00101	mg/Kg		08/14/21 10:00	08/14/21 21:44	1
Total BTEX	<0.00399	U F2 F1	0.00399	0.00101	mg/Kg		08/14/21 10:00	08/14/21 21:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*08/14/21 10:00*	*08/14/21 21:44*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/14/21 10:00*	*08/14/21 21:44*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/16/21 08:50	08/16/21 13:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/16/21 08:50	08/16/21 13:15	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/16/21 08:50	08/16/21 13:15	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/16/21 08:50	08/16/21 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*08/16/21 08:50*	*08/16/21 13:15*	*1*
o-Terphenyl	*96*		*70 - 130*	*08/16/21 08:50*	*08/16/21 13:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**46.2**		5.00	0.858	mg/Kg			08/17/21 10:10	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21C-4

Date Collected: 08/12/21 11:25
Date Received: 08/12/21 13:46
Sample Depth: - 4

Lab Sample ID: 890-1100-82

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/14/21 10:00	08/14/21 22:04	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/14/21 10:00	08/14/21 22:04	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/14/21 10:00	08/14/21 22:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/14/21 10:00	08/14/21 22:04	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/14/21 10:00	08/14/21 22:04	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/14/21 10:00	08/14/21 22:04	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/14/21 10:00	08/14/21 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*08/14/21 10:00*	*08/14/21 22:04*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/14/21 10:00*	*08/14/21 22:04*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/16/21 08:50	08/16/21 14:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/16/21 08:50	08/16/21 14:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/16/21 08:50	08/16/21 14:17	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/16/21 08:50	08/16/21 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*08/16/21 08:50*	*08/16/21 14:17*	*1*
o-Terphenyl	*95*		*70 - 130*	*08/16/21 08:50*	*08/16/21 14:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.8**		4.98	0.855	mg/Kg			08/17/21 10:16	1

Client Sample ID: SB-21C-6

Date Collected: 08/12/21 11:30
Date Received: 08/12/21 13:46
Sample Depth: - 6

Lab Sample ID: 890-1100-83

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		08/14/21 10:00	08/14/21 22:25	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		08/14/21 10:00	08/14/21 22:25	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		08/14/21 10:00	08/14/21 22:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		08/14/21 10:00	08/14/21 22:25	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		08/14/21 10:00	08/14/21 22:25	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		08/14/21 10:00	08/14/21 22:25	1
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg		08/14/21 10:00	08/14/21 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*08/14/21 10:00*	*08/14/21 22:25*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/14/21 10:00*	*08/14/21 22:25*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21C-6

Lab Sample ID: 890-1100-83
Matrix: Solid
Date Collected: 08/12/21 11:30
Date Received: 08/12/21 13:46
Sample Depth: - 6

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/16/21 08:50	08/16/21 14:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/16/21 08:50	08/16/21 14:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/16/21 08:50	08/16/21 14:38	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/16/21 08:50	08/16/21 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*08/16/21 08:50*	*08/16/21 14:38*	*1*
o-Terphenyl	*95*		*70 - 130*	*08/16/21 08:50*	*08/16/21 14:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**105**		4.95	0.850	mg/Kg			08/17/21 10:21	1

Client Sample ID: SB-21C-15

Lab Sample ID: 890-1100-84
Matrix: Solid
Date Collected: 08/12/21 11:45
Date Received: 08/12/21 13:46
Sample Depth: - 15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		08/14/21 10:00	08/14/21 22:45	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		08/14/21 10:00	08/14/21 22:45	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		08/14/21 10:00	08/14/21 22:45	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		08/14/21 10:00	08/14/21 22:45	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		08/14/21 10:00	08/14/21 22:45	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		08/14/21 10:00	08/14/21 22:45	1
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg		08/14/21 10:00	08/14/21 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*08/14/21 10:00*	*08/14/21 22:45*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/14/21 10:00*	*08/14/21 22:45*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		08/16/21 08:50	08/16/21 14:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		08/16/21 08:50	08/16/21 14:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		08/16/21 08:50	08/16/21 14:59	1
Total TPH	<49.9	U	49.9	15.0	mg/Kg		08/16/21 08:50	08/16/21 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*08/16/21 08:50*	*08/16/21 14:59*	*1*
o-Terphenyl	*99*		*70 - 130*	*08/16/21 08:50*	*08/16/21 14:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**104**		5.04	0.865	mg/Kg			08/17/21 10:27	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21C-20

Date Collected: 08/12/21 11:50
Date Received: 08/12/21 13:46
Sample Depth: - 20

Lab Sample ID: 890-1100-85

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		08/14/21 10:00	08/14/21 23:05	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		08/14/21 10:00	08/14/21 23:05	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		08/14/21 10:00	08/14/21 23:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		08/14/21 10:00	08/14/21 23:05	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		08/14/21 10:00	08/14/21 23:05	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		08/14/21 10:00	08/14/21 23:05	1
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg		08/14/21 10:00	08/14/21 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*08/14/21 10:00*	*08/14/21 23:05*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/14/21 10:00*	*08/14/21 23:05*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.9	mg/Kg		08/16/21 08:50	08/16/21 15:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		08/16/21 08:50	08/16/21 15:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		08/16/21 08:50	08/16/21 15:21	1
Total TPH	<49.8	U	49.8	14.9	mg/Kg		08/16/21 08:50	08/16/21 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*08/16/21 08:50*	*08/16/21 15:21*	*1*
o-Terphenyl	*93*		*70 - 130*	*08/16/21 08:50*	*08/16/21 15:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**84.9**		4.98	0.855	mg/Kg			08/17/21 10:32	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1100-1	SB-33-2	98	95
890-1100-1 MS	SB-33-2	130	129
890-1100-2	SB-33-4	106	104
890-1100-3	SB-33-20	108	81
890-1100-4	SB-33-55	108	93
890-1100-5	SB-33-60	120	105
890-1100-6	SB-33-65	109	74
890-1100-7	SB-31-2	111	91
890-1100-8	SB-31-4	777 S1+	103
890-1100-9	SB-31-15	127	125
890-1100-10	SB-31-25	99	96
890-1100-11	SB-31-30	103	101
890-1100-12	SB-30-2	96	81
890-1100-13	SB-30-4	113	96
890-1100-14	SB-30-8	119	104
890-1100-15	SB-30-25	123	99
890-1100-16	SB-30-30	117	81
890-1100-17	SB-26-2	136 S1+	125
890-1100-18	SB-26-4	117	94
890-1100-19	SB-26-15	119	108
890-1100-20	SB-26-25	106	105
890-1100-21	SB-26-30	115	107
890-1100-21 MS	SB-26-30	107	103
890-1100-22	SB-25-2	121	102
890-1100-23	SB-25-4	139 S1+	108
890-1100-24	SB-25-15	124	103
890-1100-25	SB-25-30	121	102
890-1100-26	SB-25-40	115	112
890-1100-27	SB-25-45	115	106
890-1100-28	SB-24-2	115	107
890-1100-29	SB-24-4	118	104
890-1100-30	SB-24-15	533 S1+	27 S1-
890-1100-31	SB-24-25	111	113
890-1100-32	SB-24-30	117	117
890-1100-33	SB-29-2	110	113
890-1100-34	SB-29-4	114	111
890-1100-35	SB-29-10	117	115
890-1100-36	SB-29-15	122	116
890-1100-37	SB-29-25	116	113
890-1100-38	SB-22-2	133 S1+	113
890-1100-39	SB-22-4	115	111
890-1100-40	SB-22-15	118	111
890-1100-41	SB-22-30	118	100
890-1100-42	SB-22-45	132 S1+	105
890-1100-43	SB-22-50	112	97
890-1100-44	SB-19-2	122	98
890-1100-45	SB-19-4	120	103
890-1100-46	SB-19-20	112	97
890-1100-47	SB-19-45	120	93

Surrogate Summary

Client: GHD Services Inc. Job ID: 890-1100-1
Project/Site: Flamenco #1 SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1100-48	SB-19-50	109	94
890-1100-49	SB-18-2	113	92
890-1100-50	SB-18-4	114	92
890-1100-51	SB-18-30	121	100
890-1100-52	SB-18-55	114	96
890-1100-53	SB-18-60	121	96
890-1100-54	SB-21A-2	110	98
890-1100-55	SB-21A-4	112	93
890-1100-56	SB-21A-15	104	97
890-1100-57	SB-21A-35	116	97
890-1100-58	SB-21A-55	119	98
890-1100-59	SB-21A-60	114	95
890-1100-60	SB-28-2	94	99
890-1100-61	SB-28-4	99	94
890-1100-61 MS	SB-28-4	112	97
890-1100-62	SB-28-20	108	97
890-1100-63	SB-28-25	93	89
890-1100-64	SB-28-40	109	116
890-1100-65	SB-28-45	109	101
890-1100-66	SB-40A-2	114	107
890-1100-67	SB-40A-4	115	113
890-1100-68	SB-40A-10	104	106
890-1100-69	SB-40A-20	84	109
890-1100-70	SB-40A-25	142 S1+	131 S1+
890-1100-71	SB-27A-2	90	107
890-1100-72	SB-27A-4	108	94
890-1100-73	SB-27A-10	100	95
890-1100-74	SB-27A-15	91	104
890-1100-75	SB-27A-20	88	99
890-1100-76	SB-21B-2	117	70
890-1100-77	SB-21B-4	113	98
890-1100-78	SB-21B-6	99	119
890-1100-79	SB-21B-15	110	132 S1+
890-1100-80	SB-21B-20	104	98
890-1100-81	SB-21C-2	106	95
890-1100-81 MS	SB-21C-2	106	104
890-1100-81 MSD	SB-21C-2	94	89
890-1100-82	SB-21C-4	125	97
890-1100-83	SB-21C-6	133 S1+	97
890-1100-84	SB-21C-15	133 S1+	104
890-1100-85	SB-21C-20	135 S1+	96
LCS 880-6479/1-A	Lab Control Sample	82	94
LCS 880-6492/1-A	Lab Control Sample	108	106
LCS 880-6494/1-A	Lab Control Sample	107	117
LCS 880-6497/1-A	Lab Control Sample	102	108
LCS 880-6514/1-A	Lab Control Sample	101	105
LCSD 880-6479/2-A	Lab Control Sample Dup	102	110
LCSD 880-6492/2-A	Lab Control Sample Dup	109	105
LCSD 880-6497/2-A	Lab Control Sample Dup	103	109
LCSD 880-6514/2-A	Lab Control Sample Dup	105	103

Surrogate Summary

Client: GHD Services Inc. Job ID: 890-1100-1
Project/Site: Flamenco #1 SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
MB 880-6455/5-A	Method Blank	120	111
MB 880-6457/5-A	Method Blank	104	97
MB 880-6478/5-A	Method Blank	105	95
MB 880-6479/5-A	Method Blank	115	105
MB 880-6492/5-A	Method Blank	103	94
MB 880-6494/5-A	Method Blank	119	113
MB 880-6497/5-A	Method Blank	135 S1+	100
MB 880-6514/5-A	Method Blank	105	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID		
890-1100-1 MSD	SB-33-2		
890-1100-21 MSD	SB-26-30		
890-1100-41 MS	SB-22-30		
890-1100-41 MSD	SB-22-30		
890-1100-61 MSD	SB-28-4		
LCSD 880-6494/2-A	Lab Control Sample Dup		

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-1100-1	SB-33-2	80	87
890-1100-1 MS	SB-33-2	72	72
890-1100-1 MSD	SB-33-2	72	72
890-1100-2	SB-33-4	80	86
890-1100-3	SB-33-20	84	94
890-1100-4	SB-33-55	79	87
890-1100-5	SB-33-60	79	84
890-1100-6	SB-33-65	97	105
890-1100-7	SB-31-2	78	85
890-1100-8	SB-31-4	79	87
890-1100-9	SB-31-15	82	92
890-1100-10	SB-31-25	87	97
890-1100-11	SB-31-30	84	95
890-1100-12	SB-30-2	78	83
890-1100-13	SB-30-4	81	88
890-1100-14	SB-30-8	89	101

Surrogate Summary

Client: GHD Services Inc. Job ID: 890-1100-1
Project/Site: Flamenco #1 SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
890-1100-15	SB-30-25	79	87								
890-1100-16	SB-30-30	81	89								
890-1100-17	SB-26-2	80	85								
890-1100-18	SB-26-4	78	87								
890-1100-19	SB-26-15	77	87								
890-1100-20	SB-26-25	77	87								
890-1100-21	SB-26-30	112	116								
890-1100-21 MS	SB-26-30	91	87								
890-1100-21 MSD	SB-26-30	93	89								
890-1100-22	SB-25-2	98	101								
890-1100-23	SB-25-4	97	103								
890-1100-24	SB-25-15	105	114								
890-1100-25	SB-25-30	98	105								
890-1100-26	SB-25-40	98	102								
890-1100-27	SB-25-45	94	102								
890-1100-28	SB-24-2	100	109								
890-1100-29	SB-24-4	93	99								
890-1100-30	SB-24-15	105	113								
890-1100-31	SB-24-25	89	96								
890-1100-32	SB-24-30	92	99								
890-1100-33	SB-29-2	92	99								
890-1100-34	SB-29-4	94	99								
890-1100-35	SB-29-10	90	97								
890-1100-36	SB-29-15	104	106								
890-1100-37	SB-29-25	90	93								
890-1100-38	SB-22-2	98	104								
890-1100-39	SB-22-4	89	96								
890-1100-40	SB-22-15	99	107								
890-1100-41	SB-22-30	94	106								
890-1100-42	SB-22-45	98	112								
890-1100-42 MS	SB-22-45	94	96								
890-1100-42 MSD	SB-22-45	92	95								
890-1100-43	SB-22-50	87	94								
890-1100-44	SB-19-2	91	99								
890-1100-45	SB-19-4	103	115								
890-1100-46	SB-19-20	100	113								
890-1100-47	SB-19-45	92	107								
890-1100-48	SB-19-50	89	94								
890-1100-49	SB-18-2	89	93								
890-1100-50	SB-18-4	100	108								
890-1100-51	SB-18-30	86	96								
890-1100-52	SB-18-55	98	105								
890-1100-53	SB-18-60	116	127								
890-1100-54	SB-21A-2	102	115								
890-1100-55	SB-21A-4	93	104								
890-1100-56	SB-21A-15	78	87								
890-1100-57	SB-21A-35	88	101								
890-1100-58	SB-21A-55	92	102								
890-1100-59	SB-21A-60	89	96								
890-1100-60	SB-28-2	79	83								

Surrogate Summary

Client: GHD Services Inc. Job ID: 890-1100-1
Project/Site: Flamenco #1 SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1100-61	SB-28-4	80	87
890-1100-61 MS	SB-28-4	72	72
890-1100-61 MSD	SB-28-4	73	72
890-1100-62	SB-28-20	77	85
890-1100-63	SB-28-25	74	78
890-1100-64	SB-28-40	77	84
890-1100-65	SB-28-45	77	84
890-1100-66	SB-40A-2	74	77
890-1100-67	SB-40A-4	74	77
890-1100-68	SB-40A-10	74	82
890-1100-69	SB-40A-20	85	89
890-1100-70	SB-40A-25	70	72
890-1100-71	SB-27A-2	77	83
890-1100-72	SB-27A-4	74	75
890-1100-73	SB-27A-10	77	85
890-1100-74	SB-27A-15	72	78
890-1100-75	SB-27A-20	67 S1-	70
890-1100-76	SB-21B-2	56 S1-	54 S1-
890-1100-77	SB-21B-4	59 S1-	59 S1-
890-1100-78	SB-21B-6	65 S1-	72
890-1100-79	SB-21B-15	79	80
890-1100-80	SB-21B-20	62 S1-	64 S1-
890-1100-81	SB-21C-2	90	96
890-1100-81 MS	SB-21C-2	92	87
890-1100-81 MSD	SB-21C-2	91	88
890-1100-82	SB-21C-4	87	95
890-1100-83	SB-21C-6	88	95
890-1100-84	SB-21C-15	92	99
890-1100-85	SB-21C-20	91	93
LCS 880-6569/2-A	Lab Control Sample	81	87
LCS 880-6577/2-A	Lab Control Sample	98	95
LCS 880-6578/2-A	Lab Control Sample	101	104
LCS 880-6579/2-A	Lab Control Sample	88	95
LCS 880-6589/2-A	Lab Control Sample	97	97
LCSD 880-6569/3-A	Lab Control Sample Dup	82	88
LCSD 880-6577/3-A	Lab Control Sample Dup	102	97
LCSD 880-6578/3-A	Lab Control Sample Dup	98	103
LCSD 880-6579/3-A	Lab Control Sample Dup	82	91
LCSD 880-6589/3-A	Lab Control Sample Dup	98	99
MB 880-6569/1-A	Method Blank	88	100
MB 880-6577/1-A	Method Blank	110	118
MB 880-6578/1-A	Method Blank	119	138 S1+
MB 880-6579/1-A	Method Blank	94	107
MB 880-6589/1-A	Method Blank	107	118

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6455/5-A
Matrix: Solid
Analysis Batch: 6512

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6455

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/12/21 13:37	08/13/21 17:58	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/12/21 13:37	08/13/21 17:58	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/12/21 13:37	08/13/21 17:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/12/21 13:37	08/13/21 17:58	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/12/21 13:37	08/13/21 17:58	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/12/21 13:37	08/13/21 17:58	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/12/21 13:37	08/13/21 17:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*08/12/21 13:37*	*08/13/21 17:58*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*08/12/21 13:37*	*08/13/21 17:58*	*1*

Lab Sample ID: MB 880-6457/5-A
Matrix: Solid
Analysis Batch: 6495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6457

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 09:00	08/13/21 12:24	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 09:00	08/13/21 12:24	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 09:00	08/13/21 12:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 09:00	08/13/21 12:24	1
o-Xylene	0.0004030	J	0.00200	0.000344	mg/Kg		08/13/21 09:00	08/13/21 12:24	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 09:00	08/13/21 12:24	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 09:00	08/13/21 12:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*08/13/21 09:00*	*08/13/21 12:24*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/13/21 09:00*	*08/13/21 12:24*	*1*

Lab Sample ID: MB 880-6478/5-A
Matrix: Solid
Analysis Batch: 6493

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6478

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/12/21 16:42	08/13/21 23:16	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/12/21 16:42	08/13/21 23:16	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/12/21 16:42	08/13/21 23:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/12/21 16:42	08/13/21 23:16	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/12/21 16:42	08/13/21 23:16	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/12/21 16:42	08/13/21 23:16	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/12/21 16:42	08/13/21 23:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/12/21 16:42*	*08/13/21 23:16*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/12/21 16:42*	*08/13/21 23:16*	*1*

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-6479/5-A
Matrix: Solid
Analysis Batch: 6495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6479

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 10:30	08/13/21 23:26	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 10:30	08/13/21 23:26	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 10:30	08/13/21 23:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 10:30	08/13/21 23:26	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 10:30	08/13/21 23:26	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 10:30	08/13/21 23:26	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 10:30	08/13/21 23:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*08/13/21 10:30*	*08/13/21 23:26*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/13/21 10:30*	*08/13/21 23:26*	*1*

Lab Sample ID: LCS 880-6479/1-A
Matrix: Solid
Analysis Batch: 6495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6479

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08604		mg/Kg		86	70 - 130
Toluene	0.100	0.08986		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08333		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	0.200	0.1522		mg/Kg		76	70 - 130
o-Xylene	0.100	0.07521		mg/Kg		75	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-6479/2-A
Matrix: Solid
Analysis Batch: 6495

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6479

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09435		mg/Kg		94	70 - 130	9	35
Toluene	0.100	0.09532		mg/Kg		95	70 - 130	6	35
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130	19	35
m-Xylene & p-Xylene	0.200	0.1859		mg/Kg		93	70 - 130	20	35
o-Xylene	0.100	0.09072		mg/Kg		91	70 - 130	19	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: 890-1100-1 MSD
Matrix: Solid
Analysis Batch: 6495

Client Sample ID: SB-33-2
Prep Type: Total/NA
Prep Batch: 6479

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.000474	J *- *1	0.0990	0.06877		mg/Kg					

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1100-1 MSD — **Client Sample ID: SB-33-2**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 6495 — **Prep Batch: 6479**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	<0.000453	U	0.0990	0.1346		mg/Kg					
Ethylbenzene	<0.000562	U	0.0990	0.02119		mg/Kg					
m-Xylene & p-Xylene	<0.00100	U	0.198	0.2361		mg/Kg					
o-Xylene	<0.000342	U	0.0990	0.1105		mg/Kg					

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: MB 880-6492/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 6493 — **Prep Batch: 6492**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 08:34	08/14/21 10:29	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 08:34	08/14/21 10:29	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 08:34	08/14/21 10:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:34	08/14/21 10:29	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 08:34	08/14/21 10:29	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:34	08/14/21 10:29	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:34	08/14/21 10:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*08/13/21 08:34*	*08/14/21 10:29*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/13/21 08:34*	*08/14/21 10:29*	*1*

Lab Sample ID: LCS 880-6492/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 6493 — **Prep Batch: 6492**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1030		mg/Kg		103	70 - 130		
Toluene			0.100	0.09477		mg/Kg		95	70 - 130		
Ethylbenzene			0.100	0.09090		mg/Kg		91	70 - 130		
m-Xylene & p-Xylene			0.200	0.1811		mg/Kg		91	70 - 130		
o-Xylene			0.100	0.09183		mg/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-6492/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 6493 — **Prep Batch: 6492**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09527		mg/Kg		95	70 - 130	8	35
Toluene			0.100	0.08880		mg/Kg		89	70 - 130	7	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-6492/2-A
Matrix: Solid
Analysis Batch: 6493

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6492

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			0.100	0.08590		mg/Kg		86	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1713		mg/Kg		86	70 - 130	6	35
o-Xylene			0.100	0.08654		mg/Kg		87	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-1100-41 MS
Matrix: Solid
Analysis Batch: 6493

Client Sample ID: SB-22-30
Prep Type: Total/NA
Prep Batch: 6492

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 890-1100-41 MSD
Matrix: Solid
Analysis Batch: 6493

Client Sample ID: SB-22-30
Prep Type: Total/NA
Prep Batch: 6492

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0996	0.09331		mg/Kg					
Toluene	<0.00199	U	0.0996	0.08778		mg/Kg					
Ethylbenzene	<0.00199	U	0.0996	0.08724		mg/Kg					
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1755		mg/Kg					
o-Xylene	<0.00199	U	0.0996	0.08825		mg/Kg					

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: MB 880-6494/5-A
Matrix: Solid
Analysis Batch: 6495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 08:46	08/14/21 13:22	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 08:46	08/14/21 13:22	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 08:46	08/14/21 13:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 13:22	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 08:46	08/14/21 13:22	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 13:22	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 08:46	08/14/21 13:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*08/13/21 08:46*	*08/14/21 13:22*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*08/13/21 08:46*	*08/14/21 13:22*	*1*

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-6494/1-A
Matrix: Solid
Analysis Batch: 6495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6494

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08919		mg/Kg		89	70 - 130		
Toluene			0.100	0.09762		mg/Kg		98	70 - 130		
Ethylbenzene			0.100	0.09704		mg/Kg		97	70 - 130		
m-Xylene & p-Xylene			0.200	0.1894		mg/Kg		95	70 - 130		
o-Xylene			0.100	0.09054		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*

Lab Sample ID: LCSD 880-6494/2-A
Matrix: Solid
Analysis Batch: 6495

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6494

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08568		mg/Kg					
Toluene			0.100	0.1073		mg/Kg					
Ethylbenzene			0.100	0.1123		mg/Kg					
m-Xylene & p-Xylene			0.200	0.2095		mg/Kg					
o-Xylene			0.100	0.09952		mg/Kg					

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 890-1100-61 MSD
Matrix: Solid
Analysis Batch: 6495

Client Sample ID: SB-28-4
Prep Type: Total/NA
Prep Batch: 6494

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.000383	U	0.0998	<0.00200	U	mg/Kg					
Toluene	0.000535	J	0.0998	0.0007065	J	mg/Kg					
Ethylbenzene	<0.000563	U	0.0998	0.003817		mg/Kg					
m-Xylene & p-Xylene	0.00102	J	0.200	0.006508		mg/Kg					
o-Xylene	<0.000343	U	0.0998	0.003501		mg/Kg					

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 890-1100-1 MS
Matrix: Solid
Analysis Batch: 6495

Client Sample ID: SB-33-2
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*
1,4-Difluorobenzene (Surr)	*129*		*70 - 130*

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1100-61 MS
Matrix: Solid
Analysis Batch: 6495

Client Sample ID: SB-28-4
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: MB 880-6497/5-A
Matrix: Solid
Analysis Batch: 6512

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6497

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/13/21 09:31	08/14/21 05:33	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/13/21 09:31	08/14/21 05:33	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/13/21 09:31	08/14/21 05:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 09:31	08/14/21 05:33	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/13/21 09:31	08/14/21 05:33	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 09:31	08/14/21 05:33	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/13/21 09:31	08/14/21 05:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	08/13/21 09:31	08/14/21 05:33	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/13/21 09:31	08/14/21 05:33	1

Lab Sample ID: LCS 880-6497/1-A
Matrix: Solid
Analysis Batch: 6512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6497

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1026		mg/Kg		103	70 - 130
Toluene	0.100	0.09222		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09607		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1945		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09889		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-6497/2-A
Matrix: Solid
Analysis Batch: 6512

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6497

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1066		mg/Kg		107	70 - 130	4	35
Toluene	0.100	0.09362		mg/Kg		94	70 - 130	2	35
Ethylbenzene	0.100	0.09579		mg/Kg		96	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1941		mg/Kg		97	70 - 130	0	35
o-Xylene	0.100	0.09837		mg/Kg		98	70 - 130	1	35

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-6497/2-A
Matrix: Solid
Analysis Batch: 6512

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6497

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-1100-21 MSD
Matrix: Solid
Analysis Batch: 6512

Client Sample ID: SB-26-30
Prep Type: Total/NA
Prep Batch: 6497

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.000385	U	0.0994	0.07940		mg/Kg					
Toluene	<0.000456	U	0.0994	0.07435		mg/Kg					
Ethylbenzene	<0.000565	U	0.0994	0.08138		mg/Kg					
m-Xylene & p-Xylene	<0.00101	U	0.199	0.1666		mg/Kg					
o-Xylene	<0.000344	U	0.0994	0.08298		mg/Kg					

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 890-1100-21 MS
Matrix: Solid
Analysis Batch: 6512

Client Sample ID: SB-26-30
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-6514/5-A
Matrix: Solid
Analysis Batch: 6493

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6514

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		08/14/21 10:00	08/14/21 21:22	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		08/14/21 10:00	08/14/21 21:22	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		08/14/21 10:00	08/14/21 21:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		08/14/21 10:00	08/14/21 21:22	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		08/14/21 10:00	08/14/21 21:22	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		08/14/21 10:00	08/14/21 21:22	1
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg		08/14/21 10:00	08/14/21 21:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/14/21 10:00	08/14/21 21:22	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/14/21 10:00	08/14/21 21:22	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-6514/1-A
Matrix: Solid
Analysis Batch: 6493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6514

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09438		mg/Kg		94	70 - 130		
Toluene			0.100	0.08689		mg/Kg		87	70 - 130		
Ethylbenzene			0.100	0.08358		mg/Kg		84	70 - 130		
m-Xylene & p-Xylene			0.200	0.1664		mg/Kg		83	70 - 130		
o-Xylene			0.100	0.08354		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-6514/2-A
Matrix: Solid
Analysis Batch: 6493

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6514

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09737		mg/Kg		97	70 - 130	3	35
Toluene			0.100	0.08836		mg/Kg		88	70 - 130	2	35
Ethylbenzene			0.100	0.08717		mg/Kg		87	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1735		mg/Kg		87	70 - 130	4	35
o-Xylene			0.100	0.08798		mg/Kg		88	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-1100-81 MS
Matrix: Solid
Analysis Batch: 6493

Client Sample ID: SB-21C-2
Prep Type: Total/NA
Prep Batch: 6514

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U F2 F1	0.0990	0.06479	F1	mg/Kg		65	70 - 130		
Toluene	<0.00200	U F2 F1	0.0990	0.05746	F1	mg/Kg		58	70 - 130		
Ethylbenzene	<0.00200	U F2 F1	0.0990	0.05508	F1	mg/Kg		56	70 - 130		
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.198	0.1108	F1	mg/Kg		56	70 - 130		
o-Xylene	<0.00200	U F2 F1	0.0990	0.05866	F1	mg/Kg		59	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-1100-81 MSD
Matrix: Solid
Analysis Batch: 6493

Client Sample ID: SB-21C-2
Prep Type: Total/NA
Prep Batch: 6514

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F2 F1	0.0994	0.02646	F2 F1	mg/Kg		27	70 - 130	84	35
Toluene	<0.00200	U F2 F1	0.0994	0.02819	F2 F1	mg/Kg		28	70 - 130	68	35
Ethylbenzene	<0.00200	U F2 F1	0.0994	0.02831	F2 F1	mg/Kg		28	70 - 130	64	35

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1100-81 MSD
Matrix: Solid
Analysis Batch: 6493

Client Sample ID: SB-21C-2
Prep Type: Total/NA
Prep Batch: 6514

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.199	0.05651	F2 F1	mg/Kg		28	70 - 130	65	35
o-Xylene	<0.00200	U F2 F1	0.0994	0.02990	F2 F1	mg/Kg		30	70 - 130	65	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-6569/1-A
Matrix: Solid
Analysis Batch: 6570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6569

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/14/21 21:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/14/21 21:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/14/21 21:23	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 09:48	08/14/21 21:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*08/14/21 09:48*	*08/14/21 21:23*	*1*
o-Terphenyl	*100*		*70 - 130*	*08/14/21 09:48*	*08/14/21 21:23*	*1*

Lab Sample ID: LCS 880-6569/2-A
Matrix: Solid
Analysis Batch: 6570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6569

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	780.0		mg/Kg		78	70 - 130
Diesel Range Organics (Over C10-C28)	1000	889.6		mg/Kg		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*81*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Lab Sample ID: LCSD 880-6569/3-A
Matrix: Solid
Analysis Batch: 6570

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6569

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	798.3		mg/Kg		80	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	906.3		mg/Kg		91	70 - 130	2	20

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-6569/3-A
Matrix: Solid
Analysis Batch: 6570

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6569

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: 890-1100-1 MS
Matrix: Solid
Analysis Batch: 6570

Client Sample ID: SB-33-2
Prep Type: Total/NA
Prep Batch: 6569

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	725.0		mg/Kg		73	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	774.1		mg/Kg		78	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	72		70 - 130
o-Terphenyl	72		70 - 130

Lab Sample ID: 890-1100-1 MSD
Matrix: Solid
Analysis Batch: 6570

Client Sample ID: SB-33-2
Prep Type: Total/NA
Prep Batch: 6569

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	713.7		mg/Kg		72	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	803.1		mg/Kg		80	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	72		70 - 130
o-Terphenyl	72		70 - 130

Lab Sample ID: MB 880-6577/1-A
Matrix: Solid
Analysis Batch: 6580

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6577

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 11:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 11:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 11:49	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 11:51	08/15/21 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	08/14/21 11:51	08/15/21 11:49	1
o-Terphenyl	118		70 - 130	08/14/21 11:51	08/15/21 11:49	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-6577/2-A
Matrix: Solid
Analysis Batch: 6580

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6577

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	825.7		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	851.0		mg/Kg		85	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Lab Sample ID: LCSD 880-6577/3-A
Matrix: Solid
Analysis Batch: 6580

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6577

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	839.5		mg/Kg		84	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	861.0		mg/Kg		86	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Lab Sample ID: 890-1100-21 MS
Matrix: Solid
Analysis Batch: 6580

Client Sample ID: SB-26-30
Prep Type: Total/NA
Prep Batch: 6577

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	1011		mg/Kg		102	70 - 130		
Diesel Range Organics (Over C10-C28)	15.1	J	995	875.9		mg/Kg		87	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Lab Sample ID: 890-1100-21 MSD
Matrix: Solid
Analysis Batch: 6580

Client Sample ID: SB-26-30
Prep Type: Total/NA
Prep Batch: 6577

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	983.7		mg/Kg		99	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	15.1	J	998	906.1		mg/Kg		89	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1100-21 MSD
Matrix: Solid
Analysis Batch: 6580

Client Sample ID: SB-26-30
Prep Type: Total/NA
Prep Batch: 6577

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	89		70 - 130

Lab Sample ID: MB 880-6578/1-A
Matrix: Solid
Analysis Batch: 6582

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6578

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 11:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 11:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 11:49	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:06	08/15/21 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	08/14/21 12:06	08/15/21 11:49	1
o-Terphenyl	138	S1+	70 - 130	08/14/21 12:06	08/15/21 11:49	1

Lab Sample ID: LCS 880-6578/2-A
Matrix: Solid
Analysis Batch: 6582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6578

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	922.4		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	849.8		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: LCSD 880-6578/3-A
Matrix: Solid
Analysis Batch: 6582

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6578

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	993.9		mg/Kg		99	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	806.7		mg/Kg		81	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	103		70 - 130

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1100-42 MS
Matrix: Solid
Analysis Batch: 6582

Client Sample ID: SB-22-45
Prep Type: Total/NA
Prep Batch: 6578

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	991.7		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	886.1		mg/Kg		89	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*94*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Lab Sample ID: 890-1100-42 MSD
Matrix: Solid
Analysis Batch: 6582

Client Sample ID: SB-22-45
Prep Type: Total/NA
Prep Batch: 6578

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	987.0		mg/Kg		99	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	862.9		mg/Kg		86	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Lab Sample ID: MB 880-6579/1-A
Matrix: Solid
Analysis Batch: 6584

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 11:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 11:11	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 11:11	1
Total TPH	<50.0	U	50.0	15.0	mg/Kg		08/14/21 12:26	08/15/21 11:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*08/14/21 12:26*	*08/15/21 11:11*	*1*
o-Terphenyl	*107*		*70 - 130*	*08/14/21 12:26*	*08/15/21 11:11*	*1*

Lab Sample ID: LCS 880-6579/2-A
Matrix: Solid
Analysis Batch: 6584

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	873.3		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	980.8		mg/Kg		98	70 - 130

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-6579/2-A
Matrix: Solid
Analysis Batch: 6584

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6579

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: LCSD 880-6579/3-A
Matrix: Solid
Analysis Batch: 6584

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6579

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	801.5		mg/Kg		80	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	937.4		mg/Kg		94	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 890-1100-61 MS
Matrix: Solid
Analysis Batch: 6584

Client Sample ID: SB-28-4
Prep Type: Total/NA
Prep Batch: 6579

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	716.2		mg/Kg		72	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	840.1		mg/Kg		84	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	72		70 - 130
o-Terphenyl	72		70 - 130

Lab Sample ID: 890-1100-61 MSD
Matrix: Solid
Analysis Batch: 6584

Client Sample ID: SB-28-4
Prep Type: Total/NA
Prep Batch: 6579

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	792.9		mg/Kg		79	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	846.4		mg/Kg		85	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	73		70 - 130
o-Terphenyl	72		70 - 130

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-6589/1-A
Matrix: Solid
Analysis Batch: 6591

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6589

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	16.82	J	50.0	15.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1
Total TPH	16.82	J	50.0	15.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*08/16/21 08:50*	*08/16/21 11:24*	*1*
o-Terphenyl	*118*		*70 - 130*	*08/16/21 08:50*	*08/16/21 11:24*	*1*

Lab Sample ID: LCS 880-6589/2-A
Matrix: Solid
Analysis Batch: 6591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6589

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	814.9		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	832.6		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Lab Sample ID: LCSD 880-6589/3-A
Matrix: Solid
Analysis Batch: 6591

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6589

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	902.4		mg/Kg		90	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	833.9		mg/Kg		83	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: 890-1100-81 MS
Matrix: Solid
Analysis Batch: 6591

Client Sample ID: SB-21C-2
Prep Type: Total/NA
Prep Batch: 6589

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	1032		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	995	843.5		mg/Kg		85	70 - 130		

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1100-81 MS
Matrix: Solid
Analysis Batch: 6591

Client Sample ID: SB-21C-2
Prep Type: Total/NA
Prep Batch: 6589

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: 890-1100-81 MSD
Matrix: Solid
Analysis Batch: 6591

Client Sample ID: SB-21C-2
Prep Type: Total/NA
Prep Batch: 6589

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	981.7		mg/Kg		98	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	844.9		mg/Kg		85	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	88		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6529/1-A
Matrix: Solid
Analysis Batch: 6545

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/13/21 19:50	1

Lab Sample ID: LCS 880-6529/2-A
Matrix: Solid
Analysis Batch: 6545

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	270.6		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-6529/3-A
Matrix: Solid
Analysis Batch: 6545

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	264.5		mg/Kg		106	90 - 110	2	20

Lab Sample ID: 890-1100-35 MS
Matrix: Solid
Analysis Batch: 6545

Client Sample ID: SB-29-10
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	630	F1	253	806.5	F1	mg/Kg		70	90 - 110

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1100-35 MSD — **Client Sample ID: SB-29-10**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 6545

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	630	F1	253	789.7	F1	mg/Kg		63	90 - 110	2	20

Lab Sample ID: MB 880-6546/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 6557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/13/21 23:56	1

Lab Sample ID: LCS 880-6546/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 6557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	258.0		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-6546/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 6557

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	258.5		mg/Kg		103	90 - 110	0	20

Lab Sample ID: MB 880-6530/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 6559

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/14/21 06:29	1

Lab Sample ID: LCS 880-6530/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 6559

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	259.6		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-6530/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 6559

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	259.3		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-6534/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 6619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/16/21 16:13	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-6534/2-A
Matrix: Solid
Analysis Batch: 6619

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	252.9		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-6534/3-A
Matrix: Solid
Analysis Batch: 6619

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	252.9		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-1100-3 MS
Matrix: Solid
Analysis Batch: 6619

Client Sample ID: SB-33-20
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	2440		1250	3689		mg/Kg		100	90 - 110		

Lab Sample ID: 890-1100-3 MSD
Matrix: Solid
Analysis Batch: 6619

Client Sample ID: SB-33-20
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2440		1250	3684		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-6533/1-A
Matrix: Solid
Analysis Batch: 6621

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/16/21 19:29	1

Lab Sample ID: LCS 880-6533/2-A
Matrix: Solid
Analysis Batch: 6621

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	258.1		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-6533/3-A
Matrix: Solid
Analysis Batch: 6621

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	258.2		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-1100-13 MS
Matrix: Solid
Analysis Batch: 6621

Client Sample ID: SB-30-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	81.9		248	330.7		mg/Kg		101	90 - 110		

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1100-13 MSD
Matrix: Solid
Analysis Batch: 6621

Client Sample ID: SB-30-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	81.9		248	331.5		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-1100-23 MS
Matrix: Solid
Analysis Batch: 6621

Client Sample ID: SB-25-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	33.6		248	284.5		mg/Kg		101	90 - 110

Lab Sample ID: 890-1100-23 MSD
Matrix: Solid
Analysis Batch: 6621

Client Sample ID: SB-25-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	33.6		248	284.6		mg/Kg		101	90 - 110	0	20

Lab Sample ID: MB 880-6531/1-A
Matrix: Solid
Analysis Batch: 6622

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/16/21 22:45	1

Lab Sample ID: LCS 880-6531/2-A
Matrix: Solid
Analysis Batch: 6622

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	258.5		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-6531/3-A
Matrix: Solid
Analysis Batch: 6622

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	258.8		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-1100-46 MS
Matrix: Solid
Analysis Batch: 6622

Client Sample ID: SB-19-20
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1250		250	1444	4	mg/Kg		79	90 - 110

Lab Sample ID: 890-1100-46 MSD
Matrix: Solid
Analysis Batch: 6622

Client Sample ID: SB-19-20
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1250		250	1462	4	mg/Kg		86	90 - 110	1	20

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1100-56 MS
Matrix: Solid
Analysis Batch: 6622

Client Sample ID: SB-21A-15
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7080	F1	2480	9294	F1	mg/Kg		89	90 - 110

Lab Sample ID: 890-1100-56 MSD
Matrix: Solid
Analysis Batch: 6622

Client Sample ID: SB-21A-15
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7080	F1	2480	9310		mg/Kg		90	90 - 110	0	20

Lab Sample ID: MB 880-6532/1-A
Matrix: Solid
Analysis Batch: 6623

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			08/17/21 02:02	1

Lab Sample ID: LCS 880-6532/2-A
Matrix: Solid
Analysis Batch: 6623

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	258.4		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-6532/3-A
Matrix: Solid
Analysis Batch: 6623

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	259.6		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-1100-66 MS
Matrix: Solid
Analysis Batch: 6623

Client Sample ID: SB-40A-2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	22.1		249	253.1		mg/Kg		93	90 - 110

Lab Sample ID: 890-1100-66 MSD
Matrix: Solid
Analysis Batch: 6623

Client Sample ID: SB-40A-2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	22.1		249	253.7		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 890-1100-76 MS
Matrix: Solid
Analysis Batch: 6623

Client Sample ID: SB-21B-2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	21.9		251	265.2		mg/Kg		97	90 - 110

QC Sample Results

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1100-76 MSD
Matrix: Solid
Analysis Batch: 6623

Client Sample ID: SB-21B-2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	21.9		251	266.2		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

GC VOA

Prep Batch: 6455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6455/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 6457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6457/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 6478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6478/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 6479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-1	SB-33-2	Total/NA	Solid	5035	
890-1100-2	SB-33-4	Total/NA	Solid	5035	
890-1100-3	SB-33-20	Total/NA	Solid	5035	
890-1100-4	SB-33-55	Total/NA	Solid	5035	
890-1100-5	SB-33-60	Total/NA	Solid	5035	
890-1100-6	SB-33-65	Total/NA	Solid	5035	
890-1100-7	SB-31-2	Total/NA	Solid	5035	
890-1100-8	SB-31-4	Total/NA	Solid	5035	
890-1100-9	SB-31-15	Total/NA	Solid	5035	
890-1100-10	SB-31-25	Total/NA	Solid	5035	
890-1100-11	SB-31-30	Total/NA	Solid	5035	
890-1100-12	SB-30-2	Total/NA	Solid	5035	
890-1100-13	SB-30-4	Total/NA	Solid	5035	
890-1100-14	SB-30-8	Total/NA	Solid	5035	
890-1100-15	SB-30-25	Total/NA	Solid	5035	
890-1100-16	SB-30-30	Total/NA	Solid	5035	
890-1100-17	SB-26-2	Total/NA	Solid	5035	
890-1100-18	SB-26-4	Total/NA	Solid	5035	
890-1100-19	SB-26-15	Total/NA	Solid	5035	
890-1100-20	SB-26-25	Total/NA	Solid	5035	
MB 880-6479/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6479/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6479/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1100-1 MSD	SB-33-2	Total/NA	Solid	5035	

Prep Batch: 6492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-41	SB-22-30	Total/NA	Solid	5035	
890-1100-42	SB-22-45	Total/NA	Solid	5035	
890-1100-43	SB-22-50	Total/NA	Solid	5035	
890-1100-44	SB-19-2	Total/NA	Solid	5035	
890-1100-45	SB-19-4	Total/NA	Solid	5035	
890-1100-46	SB-19-20	Total/NA	Solid	5035	
890-1100-47	SB-19-45	Total/NA	Solid	5035	
890-1100-48	SB-19-50	Total/NA	Solid	5035	
890-1100-49	SB-18-2	Total/NA	Solid	5035	
890-1100-50	SB-18-4	Total/NA	Solid	5035	
890-1100-51	SB-18-30	Total/NA	Solid	5035	
890-1100-52	SB-18-55	Total/NA	Solid	5035	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

GC VOA (Continued)

Prep Batch: 6492 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-53	SB-18-60	Total/NA	Solid	5035	
890-1100-54	SB-21A-2	Total/NA	Solid	5035	
890-1100-55	SB-21A-4	Total/NA	Solid	5035	
890-1100-56	SB-21A-15	Total/NA	Solid	5035	
890-1100-57	SB-21A-35	Total/NA	Solid	5035	
890-1100-58	SB-21A-55	Total/NA	Solid	5035	
890-1100-59	SB-21A-60	Total/NA	Solid	5035	
890-1100-60	SB-28-2	Total/NA	Solid	5035	
MB 880-6492/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6492/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6492/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1100-41 MS	SB-22-30	Total/NA	Solid	5035	
890-1100-41 MSD	SB-22-30	Total/NA	Solid	5035	

Analysis Batch: 6493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-41	SB-22-30	Total/NA	Solid	8021B	6492
890-1100-42	SB-22-45	Total/NA	Solid	8021B	6492
890-1100-43	SB-22-50	Total/NA	Solid	8021B	6492
890-1100-44	SB-19-2	Total/NA	Solid	8021B	6492
890-1100-45	SB-19-4	Total/NA	Solid	8021B	6492
890-1100-46	SB-19-20	Total/NA	Solid	8021B	6492
890-1100-47	SB-19-45	Total/NA	Solid	8021B	6492
890-1100-48	SB-19-50	Total/NA	Solid	8021B	6492
890-1100-49	SB-18-2	Total/NA	Solid	8021B	6492
890-1100-50	SB-18-4	Total/NA	Solid	8021B	6492
890-1100-51	SB-18-30	Total/NA	Solid	8021B	6492
890-1100-52	SB-18-55	Total/NA	Solid	8021B	6492
890-1100-53	SB-18-60	Total/NA	Solid	8021B	6492
890-1100-54	SB-21A-2	Total/NA	Solid	8021B	6492
890-1100-55	SB-21A-4	Total/NA	Solid	8021B	6492
890-1100-56	SB-21A-15	Total/NA	Solid	8021B	6492
890-1100-57	SB-21A-35	Total/NA	Solid	8021B	6492
890-1100-58	SB-21A-55	Total/NA	Solid	8021B	6492
890-1100-59	SB-21A-60	Total/NA	Solid	8021B	6492
890-1100-60	SB-28-2	Total/NA	Solid	8021B	6492
890-1100-81	SB-21C-2	Total/NA	Solid	8021B	6514
890-1100-82	SB-21C-4	Total/NA	Solid	8021B	6514
890-1100-83	SB-21C-6	Total/NA	Solid	8021B	6514
890-1100-84	SB-21C-15	Total/NA	Solid	8021B	6514
890-1100-85	SB-21C-20	Total/NA	Solid	8021B	6514
MB 880-6478/5-A	Method Blank	Total/NA	Solid	8021B	6478
MB 880-6492/5-A	Method Blank	Total/NA	Solid	8021B	6492
MB 880-6514/5-A	Method Blank	Total/NA	Solid	8021B	6514
LCS 880-6492/1-A	Lab Control Sample	Total/NA	Solid	8021B	6492
LCS 880-6514/1-A	Lab Control Sample	Total/NA	Solid	8021B	6514
LCSD 880-6492/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6492
LCSD 880-6514/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6514
890-1100-41 MS	SB-22-30	Total/NA	Solid	8021B	6492
890-1100-41 MSD	SB-22-30	Total/NA	Solid	8021B	6492
890-1100-81 MS	SB-21C-2	Total/NA	Solid	8021B	6514

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

GC VOA (Continued)

Analysis Batch: 6493 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-81 MSD	SB-21C-2	Total/NA	Solid	8021B	6514

Prep Batch: 6494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-61	SB-28-4	Total/NA	Solid	5035	
890-1100-62	SB-28-20	Total/NA	Solid	5035	
890-1100-63	SB-28-25	Total/NA	Solid	5035	
890-1100-64	SB-28-40	Total/NA	Solid	5035	
890-1100-65	SB-28-45	Total/NA	Solid	5035	
890-1100-66	SB-40A-2	Total/NA	Solid	5035	
890-1100-67	SB-40A-4	Total/NA	Solid	5035	
890-1100-68	SB-40A-10	Total/NA	Solid	5035	
890-1100-69	SB-40A-20	Total/NA	Solid	5035	
890-1100-70	SB-40A-25	Total/NA	Solid	5035	
890-1100-71	SB-27A-2	Total/NA	Solid	5035	
890-1100-72	SB-27A-4	Total/NA	Solid	5035	
890-1100-73	SB-27A-10	Total/NA	Solid	5035	
890-1100-74	SB-27A-15	Total/NA	Solid	5035	
890-1100-75	SB-27A-20	Total/NA	Solid	5035	
890-1100-76	SB-21B-2	Total/NA	Solid	5035	
890-1100-77	SB-21B-4	Total/NA	Solid	5035	
890-1100-78	SB-21B-6	Total/NA	Solid	5035	
890-1100-79	SB-21B-15	Total/NA	Solid	5035	
890-1100-80	SB-21B-20	Total/NA	Solid	5035	
MB 880-6494/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6494/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6494/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1100-61 MSD	SB-28-4	Total/NA	Solid	5035	

Analysis Batch: 6495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-1	SB-33-2	Total/NA	Solid	8021B	6479
890-1100-2	SB-33-4	Total/NA	Solid	8021B	6479
890-1100-3	SB-33-20	Total/NA	Solid	8021B	6479
890-1100-4	SB-33-55	Total/NA	Solid	8021B	6479
890-1100-5	SB-33-60	Total/NA	Solid	8021B	6479
890-1100-6	SB-33-65	Total/NA	Solid	8021B	6479
890-1100-7	SB-31-2	Total/NA	Solid	8021B	6479
890-1100-8	SB-31-4	Total/NA	Solid	8021B	6479
890-1100-9	SB-31-15	Total/NA	Solid	8021B	6479
890-1100-10	SB-31-25	Total/NA	Solid	8021B	6479
890-1100-11	SB-31-30	Total/NA	Solid	8021B	6479
890-1100-12	SB-30-2	Total/NA	Solid	8021B	6479
890-1100-13	SB-30-4	Total/NA	Solid	8021B	6479
890-1100-14	SB-30-8	Total/NA	Solid	8021B	6479
890-1100-15	SB-30-25	Total/NA	Solid	8021B	6479
890-1100-16	SB-30-30	Total/NA	Solid	8021B	6479
890-1100-17	SB-26-2	Total/NA	Solid	8021B	6479
890-1100-18	SB-26-4	Total/NA	Solid	8021B	6479
890-1100-19	SB-26-15	Total/NA	Solid	8021B	6479
890-1100-20	SB-26-25	Total/NA	Solid	8021B	6479

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

GC VOA (Continued)

Analysis Batch: 6495 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-61	SB-28-4	Total/NA	Solid	8021B	6494
890-1100-62	SB-28-20	Total/NA	Solid	8021B	6494
890-1100-63	SB-28-25	Total/NA	Solid	8021B	6494
890-1100-64	SB-28-40	Total/NA	Solid	8021B	6494
890-1100-65	SB-28-45	Total/NA	Solid	8021B	6494
890-1100-66	SB-40A-2	Total/NA	Solid	8021B	6494
890-1100-67	SB-40A-4	Total/NA	Solid	8021B	6494
890-1100-68	SB-40A-10	Total/NA	Solid	8021B	6494
890-1100-69	SB-40A-20	Total/NA	Solid	8021B	6494
890-1100-70	SB-40A-25	Total/NA	Solid	8021B	6494
890-1100-71	SB-27A-2	Total/NA	Solid	8021B	6494
890-1100-72	SB-27A-4	Total/NA	Solid	8021B	6494
890-1100-73	SB-27A-10	Total/NA	Solid	8021B	6494
890-1100-74	SB-27A-15	Total/NA	Solid	8021B	6494
890-1100-75	SB-27A-20	Total/NA	Solid	8021B	6494
890-1100-76	SB-21B-2	Total/NA	Solid	8021B	6494
890-1100-77	SB-21B-4	Total/NA	Solid	8021B	6494
890-1100-78	SB-21B-6	Total/NA	Solid	8021B	6494
890-1100-79	SB-21B-15	Total/NA	Solid	8021B	6494
890-1100-80	SB-21B-20	Total/NA	Solid	8021B	6494
MB 880-6457/5-A	Method Blank	Total/NA	Solid	8021B	6457
MB 880-6479/5-A	Method Blank	Total/NA	Solid	8021B	6479
MB 880-6494/5-A	Method Blank	Total/NA	Solid	8021B	6494
LCS 880-6479/1-A	Lab Control Sample	Total/NA	Solid	8021B	6479
LCS 880-6494/1-A	Lab Control Sample	Total/NA	Solid	8021B	6494
LCSD 880-6479/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6479
LCSD 880-6494/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6494
890-1100-1 MS	SB-33-2	Total/NA	Solid	8021B	
890-1100-1 MSD	SB-33-2	Total/NA	Solid	8021B	6479
890-1100-61 MS	SB-28-4	Total/NA	Solid	8021B	
890-1100-61 MSD	SB-28-4	Total/NA	Solid	8021B	6494

Prep Batch: 6497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-21	SB-26-30	Total/NA	Solid	5035	
890-1100-22	SB-25-2	Total/NA	Solid	5035	
890-1100-23	SB-25-4	Total/NA	Solid	5035	
890-1100-24	SB-25-15	Total/NA	Solid	5035	
890-1100-25	SB-25-30	Total/NA	Solid	5035	
890-1100-26	SB-25-40	Total/NA	Solid	5035	
890-1100-27	SB-25-45	Total/NA	Solid	5035	
890-1100-28	SB-24-2	Total/NA	Solid	5035	
890-1100-29	SB-24-4	Total/NA	Solid	5035	
890-1100-30	SB-24-15	Total/NA	Solid	5035	
890-1100-31	SB-24-25	Total/NA	Solid	5035	
890-1100-32	SB-24-30	Total/NA	Solid	5035	
890-1100-33	SB-29-2	Total/NA	Solid	5035	
890-1100-34	SB-29-4	Total/NA	Solid	5035	
890-1100-35	SB-29-10	Total/NA	Solid	5035	
890-1100-36	SB-29-15	Total/NA	Solid	5035	
890-1100-37	SB-29-25	Total/NA	Solid	5035	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

GC VOA (Continued)

Prep Batch: 6497 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-38	SB-22-2	Total/NA	Solid	5035	
890-1100-39	SB-22-4	Total/NA	Solid	5035	
890-1100-40	SB-22-15	Total/NA	Solid	5035	
MB 880-6497/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6497/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6497/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1100-21 MSD	SB-26-30	Total/NA	Solid	5035	

Analysis Batch: 6512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-21	SB-26-30	Total/NA	Solid	8021B	6497
890-1100-22	SB-25-2	Total/NA	Solid	8021B	6497
890-1100-23	SB-25-4	Total/NA	Solid	8021B	6497
890-1100-24	SB-25-15	Total/NA	Solid	8021B	6497
890-1100-25	SB-25-30	Total/NA	Solid	8021B	6497
890-1100-26	SB-25-40	Total/NA	Solid	8021B	6497
890-1100-27	SB-25-45	Total/NA	Solid	8021B	6497
890-1100-28	SB-24-2	Total/NA	Solid	8021B	6497
890-1100-29	SB-24-4	Total/NA	Solid	8021B	6497
890-1100-30	SB-24-15	Total/NA	Solid	8021B	6497
890-1100-31	SB-24-25	Total/NA	Solid	8021B	6497
890-1100-32	SB-24-30	Total/NA	Solid	8021B	6497
890-1100-33	SB-29-2	Total/NA	Solid	8021B	6497
890-1100-34	SB-29-4	Total/NA	Solid	8021B	6497
890-1100-35	SB-29-10	Total/NA	Solid	8021B	6497
890-1100-36	SB-29-15	Total/NA	Solid	8021B	6497
890-1100-37	SB-29-25	Total/NA	Solid	8021B	6497
890-1100-38	SB-22-2	Total/NA	Solid	8021B	6497
890-1100-39	SB-22-4	Total/NA	Solid	8021B	6497
890-1100-40	SB-22-15	Total/NA	Solid	8021B	6497
MB 880-6455/5-A	Method Blank	Total/NA	Solid	8021B	6455
MB 880-6497/5-A	Method Blank	Total/NA	Solid	8021B	6497
LCS 880-6497/1-A	Lab Control Sample	Total/NA	Solid	8021B	6497
LCSD 880-6497/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6497
890-1100-21 MS	SB-26-30	Total/NA	Solid	8021B	
890-1100-21 MSD	SB-26-30	Total/NA	Solid	8021B	6497

Prep Batch: 6514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-81	SB-21C-2	Total/NA	Solid	5035	
890-1100-82	SB-21C-4	Total/NA	Solid	5035	
890-1100-83	SB-21C-6	Total/NA	Solid	5035	
890-1100-84	SB-21C-15	Total/NA	Solid	5035	
890-1100-85	SB-21C-20	Total/NA	Solid	5035	
MB 880-6514/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6514/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6514/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1100-81 MS	SB-21C-2	Total/NA	Solid	5035	
890-1100-81 MSD	SB-21C-2	Total/NA	Solid	5035	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

GC Semi VOA

Prep Batch: 6569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-1	SB-33-2	Total/NA	Solid	8015NM Prep	
890-1100-2	SB-33-4	Total/NA	Solid	8015NM Prep	
890-1100-3	SB-33-20	Total/NA	Solid	8015NM Prep	
890-1100-4	SB-33-55	Total/NA	Solid	8015NM Prep	
890-1100-5	SB-33-60	Total/NA	Solid	8015NM Prep	
890-1100-6	SB-33-65	Total/NA	Solid	8015NM Prep	
890-1100-7	SB-31-2	Total/NA	Solid	8015NM Prep	
890-1100-8	SB-31-4	Total/NA	Solid	8015NM Prep	
890-1100-9	SB-31-15	Total/NA	Solid	8015NM Prep	
890-1100-10	SB-31-25	Total/NA	Solid	8015NM Prep	
890-1100-11	SB-31-30	Total/NA	Solid	8015NM Prep	
890-1100-12	SB-30-2	Total/NA	Solid	8015NM Prep	
890-1100-13	SB-30-4	Total/NA	Solid	8015NM Prep	
890-1100-14	SB-30-8	Total/NA	Solid	8015NM Prep	
890-1100-15	SB-30-25	Total/NA	Solid	8015NM Prep	
890-1100-16	SB-30-30	Total/NA	Solid	8015NM Prep	
890-1100-17	SB-26-2	Total/NA	Solid	8015NM Prep	
890-1100-18	SB-26-4	Total/NA	Solid	8015NM Prep	
890-1100-19	SB-26-15	Total/NA	Solid	8015NM Prep	
890-1100-20	SB-26-25	Total/NA	Solid	8015NM Prep	
MB 880-6569/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6569/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6569/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1100-1 MS	SB-33-2	Total/NA	Solid	8015NM Prep	
890-1100-1 MSD	SB-33-2	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-1	SB-33-2	Total/NA	Solid	8015B NM	6569
890-1100-2	SB-33-4	Total/NA	Solid	8015B NM	6569
890-1100-3	SB-33-20	Total/NA	Solid	8015B NM	6569
890-1100-4	SB-33-55	Total/NA	Solid	8015B NM	6569
890-1100-5	SB-33-60	Total/NA	Solid	8015B NM	6569
890-1100-7	SB-31-2	Total/NA	Solid	8015B NM	6569
890-1100-8	SB-31-4	Total/NA	Solid	8015B NM	6569
890-1100-9	SB-31-15	Total/NA	Solid	8015B NM	6569
890-1100-10	SB-31-25	Total/NA	Solid	8015B NM	6569
890-1100-11	SB-31-30	Total/NA	Solid	8015B NM	6569
890-1100-12	SB-30-2	Total/NA	Solid	8015B NM	6569
890-1100-13	SB-30-4	Total/NA	Solid	8015B NM	6569
890-1100-14	SB-30-8	Total/NA	Solid	8015B NM	6569
890-1100-15	SB-30-25	Total/NA	Solid	8015B NM	6569
890-1100-16	SB-30-30	Total/NA	Solid	8015B NM	6569
890-1100-17	SB-26-2	Total/NA	Solid	8015B NM	6569
890-1100-18	SB-26-4	Total/NA	Solid	8015B NM	6569
890-1100-19	SB-26-15	Total/NA	Solid	8015B NM	6569
890-1100-20	SB-26-25	Total/NA	Solid	8015B NM	6569
MB 880-6569/1-A	Method Blank	Total/NA	Solid	8015B NM	6569
LCS 880-6569/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6569
LCSD 880-6569/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6569
890-1100-1 MS	SB-33-2	Total/NA	Solid	8015B NM	6569

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

GC Semi VOA (Continued)

Analysis Batch: 6570 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-1 MSD	SB-33-2	Total/NA	Solid	8015B NM	6569

Prep Batch: 6577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-21	SB-26-30	Total/NA	Solid	8015NM Prep	
890-1100-22	SB-25-2	Total/NA	Solid	8015NM Prep	
890-1100-23	SB-25-4	Total/NA	Solid	8015NM Prep	
890-1100-24	SB-25-15	Total/NA	Solid	8015NM Prep	
890-1100-25	SB-25-30	Total/NA	Solid	8015NM Prep	
890-1100-26	SB-25-40	Total/NA	Solid	8015NM Prep	
890-1100-27	SB-25-45	Total/NA	Solid	8015NM Prep	
890-1100-28	SB-24-2	Total/NA	Solid	8015NM Prep	
890-1100-29	SB-24-4	Total/NA	Solid	8015NM Prep	
890-1100-30	SB-24-15	Total/NA	Solid	8015NM Prep	
890-1100-31	SB-24-25	Total/NA	Solid	8015NM Prep	
890-1100-32	SB-24-30	Total/NA	Solid	8015NM Prep	
890-1100-33	SB-29-2	Total/NA	Solid	8015NM Prep	
890-1100-34	SB-29-4	Total/NA	Solid	8015NM Prep	
890-1100-35	SB-29-10	Total/NA	Solid	8015NM Prep	
890-1100-36	SB-29-15	Total/NA	Solid	8015NM Prep	
890-1100-37	SB-29-25	Total/NA	Solid	8015NM Prep	
890-1100-38	SB-22-2	Total/NA	Solid	8015NM Prep	
890-1100-39	SB-22-4	Total/NA	Solid	8015NM Prep	
890-1100-40	SB-22-15	Total/NA	Solid	8015NM Prep	
MB 880-6577/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6577/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6577/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1100-21 MS	SB-26-30	Total/NA	Solid	8015NM Prep	
890-1100-21 MSD	SB-26-30	Total/NA	Solid	8015NM Prep	

Prep Batch: 6578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-41	SB-22-30	Total/NA	Solid	8015NM Prep	
890-1100-42	SB-22-45	Total/NA	Solid	8015NM Prep	
890-1100-43	SB-22-50	Total/NA	Solid	8015NM Prep	
890-1100-44	SB-19-2	Total/NA	Solid	8015NM Prep	
890-1100-45	SB-19-4	Total/NA	Solid	8015NM Prep	
890-1100-46	SB-19-20	Total/NA	Solid	8015NM Prep	
890-1100-47	SB-19-45	Total/NA	Solid	8015NM Prep	
890-1100-48	SB-19-50	Total/NA	Solid	8015NM Prep	
890-1100-49	SB-18-2	Total/NA	Solid	8015NM Prep	
890-1100-50	SB-18-4	Total/NA	Solid	8015NM Prep	
890-1100-51	SB-18-30	Total/NA	Solid	8015NM Prep	
890-1100-52	SB-18-55	Total/NA	Solid	8015NM Prep	
890-1100-53	SB-18-60	Total/NA	Solid	8015NM Prep	
890-1100-54	SB-21A-2	Total/NA	Solid	8015NM Prep	
890-1100-55	SB-21A-4	Total/NA	Solid	8015NM Prep	
890-1100-56	SB-21A-15	Total/NA	Solid	8015NM Prep	
890-1100-57	SB-21A-35	Total/NA	Solid	8015NM Prep	
890-1100-58	SB-21A-55	Total/NA	Solid	8015NM Prep	
890-1100-59	SB-21A-60	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

GC Semi VOA (Continued)

Prep Batch: 6578 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-60	SB-28-2	Total/NA	Solid	8015NM Prep	
MB 880-6578/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6578/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6578/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1100-42 MS	SB-22-45	Total/NA	Solid	8015NM Prep	
890-1100-42 MSD	SB-22-45	Total/NA	Solid	8015NM Prep	

Prep Batch: 6579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-61	SB-28-4	Total/NA	Solid	8015NM Prep	
890-1100-62	SB-28-20	Total/NA	Solid	8015NM Prep	
890-1100-63	SB-28-25	Total/NA	Solid	8015NM Prep	
890-1100-64	SB-28-40	Total/NA	Solid	8015NM Prep	
890-1100-65	SB-28-45	Total/NA	Solid	8015NM Prep	
890-1100-66	SB-40A-2	Total/NA	Solid	8015NM Prep	
890-1100-67	SB-40A-4	Total/NA	Solid	8015NM Prep	
890-1100-68	SB-40A-10	Total/NA	Solid	8015NM Prep	
890-1100-69	SB-40A-20	Total/NA	Solid	8015NM Prep	
890-1100-70	SB-40A-25	Total/NA	Solid	8015NM Prep	
890-1100-71	SB-27A-2	Total/NA	Solid	8015NM Prep	
890-1100-72	SB-27A-4	Total/NA	Solid	8015NM Prep	
890-1100-73	SB-27A-10	Total/NA	Solid	8015NM Prep	
890-1100-74	SB-27A-15	Total/NA	Solid	8015NM Prep	
890-1100-75	SB-27A-20	Total/NA	Solid	8015NM Prep	
890-1100-76	SB-21B-2	Total/NA	Solid	8015NM Prep	
890-1100-77	SB-21B-4	Total/NA	Solid	8015NM Prep	
890-1100-78	SB-21B-6	Total/NA	Solid	8015NM Prep	
890-1100-79	SB-21B-15	Total/NA	Solid	8015NM Prep	
890-1100-80	SB-21B-20	Total/NA	Solid	8015NM Prep	
MB 880-6579/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6579/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6579/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1100-61 MS	SB-28-4	Total/NA	Solid	8015NM Prep	
890-1100-61 MSD	SB-28-4	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-21	SB-26-30	Total/NA	Solid	8015B NM	6577
890-1100-22	SB-25-2	Total/NA	Solid	8015B NM	6577
890-1100-23	SB-25-4	Total/NA	Solid	8015B NM	6577
890-1100-24	SB-25-15	Total/NA	Solid	8015B NM	6577
890-1100-25	SB-25-30	Total/NA	Solid	8015B NM	6577
890-1100-26	SB-25-40	Total/NA	Solid	8015B NM	6577
890-1100-27	SB-25-45	Total/NA	Solid	8015B NM	6577
890-1100-28	SB-24-2	Total/NA	Solid	8015B NM	6577
890-1100-29	SB-24-4	Total/NA	Solid	8015B NM	6577
890-1100-30	SB-24-15	Total/NA	Solid	8015B NM	6577
890-1100-31	SB-24-25	Total/NA	Solid	8015B NM	6577
890-1100-32	SB-24-30	Total/NA	Solid	8015B NM	6577
890-1100-33	SB-29-2	Total/NA	Solid	8015B NM	6577
890-1100-34	SB-29-4	Total/NA	Solid	8015B NM	6577

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

GC Semi VOA (Continued)

Analysis Batch: 6580 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-35	SB-29-10	Total/NA	Solid	8015B NM	6577
890-1100-36	SB-29-15	Total/NA	Solid	8015B NM	6577
890-1100-37	SB-29-25	Total/NA	Solid	8015B NM	6577
890-1100-38	SB-22-2	Total/NA	Solid	8015B NM	6577
890-1100-39	SB-22-4	Total/NA	Solid	8015B NM	6577
890-1100-40	SB-22-15	Total/NA	Solid	8015B NM	6577
MB 880-6577/1-A	Method Blank	Total/NA	Solid	8015B NM	6577
LCS 880-6577/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6577
LCSD 880-6577/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6577
890-1100-21 MS	SB-26-30	Total/NA	Solid	8015B NM	6577
890-1100-21 MSD	SB-26-30	Total/NA	Solid	8015B NM	6577

Analysis Batch: 6582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-41	SB-22-30	Total/NA	Solid	8015B NM	6578
890-1100-42	SB-22-45	Total/NA	Solid	8015B NM	6578
890-1100-43	SB-22-50	Total/NA	Solid	8015B NM	6578
890-1100-44	SB-19-2	Total/NA	Solid	8015B NM	6578
890-1100-45	SB-19-4	Total/NA	Solid	8015B NM	6578
890-1100-46	SB-19-20	Total/NA	Solid	8015B NM	6578
890-1100-47	SB-19-45	Total/NA	Solid	8015B NM	6578
890-1100-48	SB-19-50	Total/NA	Solid	8015B NM	6578
890-1100-49	SB-18-2	Total/NA	Solid	8015B NM	6578
890-1100-50	SB-18-4	Total/NA	Solid	8015B NM	6578
890-1100-51	SB-18-30	Total/NA	Solid	8015B NM	6578
890-1100-52	SB-18-55	Total/NA	Solid	8015B NM	6578
890-1100-53	SB-18-60	Total/NA	Solid	8015B NM	6578
890-1100-54	SB-21A-2	Total/NA	Solid	8015B NM	6578
890-1100-55	SB-21A-4	Total/NA	Solid	8015B NM	6578
890-1100-56	SB-21A-15	Total/NA	Solid	8015B NM	6578
890-1100-57	SB-21A-35	Total/NA	Solid	8015B NM	6578
890-1100-58	SB-21A-55	Total/NA	Solid	8015B NM	6578
890-1100-59	SB-21A-60	Total/NA	Solid	8015B NM	6578
890-1100-60	SB-28-2	Total/NA	Solid	8015B NM	6578
MB 880-6578/1-A	Method Blank	Total/NA	Solid	8015B NM	6578
LCS 880-6578/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6578
LCSD 880-6578/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6578
890-1100-42 MS	SB-22-45	Total/NA	Solid	8015B NM	6578
890-1100-42 MSD	SB-22-45	Total/NA	Solid	8015B NM	6578

Analysis Batch: 6584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-61	SB-28-4	Total/NA	Solid	8015B NM	6579
890-1100-62	SB-28-20	Total/NA	Solid	8015B NM	6579
890-1100-63	SB-28-25	Total/NA	Solid	8015B NM	6579
890-1100-64	SB-28-40	Total/NA	Solid	8015B NM	6579
890-1100-65	SB-28-45	Total/NA	Solid	8015B NM	6579
890-1100-66	SB-40A-2	Total/NA	Solid	8015B NM	6579
890-1100-67	SB-40A-4	Total/NA	Solid	8015B NM	6579
890-1100-68	SB-40A-10	Total/NA	Solid	8015B NM	6579
890-1100-69	SB-40A-20	Total/NA	Solid	8015B NM	6579

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

GC Semi VOA (Continued)

Analysis Batch: 6584 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-70	SB-40A-25	Total/NA	Solid	8015B NM	6579
890-1100-71	SB-27A-2	Total/NA	Solid	8015B NM	6579
890-1100-72	SB-27A-4	Total/NA	Solid	8015B NM	6579
890-1100-73	SB-27A-10	Total/NA	Solid	8015B NM	6579
890-1100-74	SB-27A-15	Total/NA	Solid	8015B NM	6579
890-1100-75	SB-27A-20	Total/NA	Solid	8015B NM	6579
890-1100-76	SB-21B-2	Total/NA	Solid	8015B NM	6579
890-1100-77	SB-21B-4	Total/NA	Solid	8015B NM	6579
890-1100-78	SB-21B-6	Total/NA	Solid	8015B NM	6579
890-1100-79	SB-21B-15	Total/NA	Solid	8015B NM	6579
890-1100-80	SB-21B-20	Total/NA	Solid	8015B NM	6579
MB 880-6579/1-A	Method Blank	Total/NA	Solid	8015B NM	6579
LCS 880-6579/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6579
LCSD 880-6579/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6579
890-1100-61 MS	SB-28-4	Total/NA	Solid	8015B NM	6579
890-1100-61 MSD	SB-28-4	Total/NA	Solid	8015B NM	6579

Prep Batch: 6589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-81	SB-21C-2	Total/NA	Solid	8015NM Prep	
890-1100-82	SB-21C-4	Total/NA	Solid	8015NM Prep	
890-1100-83	SB-21C-6	Total/NA	Solid	8015NM Prep	
890-1100-84	SB-21C-15	Total/NA	Solid	8015NM Prep	
890-1100-85	SB-21C-20	Total/NA	Solid	8015NM Prep	
MB 880-6589/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6589/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1100-81 MS	SB-21C-2	Total/NA	Solid	8015NM Prep	
890-1100-81 MSD	SB-21C-2	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-6	SB-33-65	Total/NA	Solid	8015B NM	6569
890-1100-81	SB-21C-2	Total/NA	Solid	8015B NM	6589
890-1100-82	SB-21C-4	Total/NA	Solid	8015B NM	6589
890-1100-83	SB-21C-6	Total/NA	Solid	8015B NM	6589
890-1100-84	SB-21C-15	Total/NA	Solid	8015B NM	6589
890-1100-85	SB-21C-20	Total/NA	Solid	8015B NM	6589
MB 880-6589/1-A	Method Blank	Total/NA	Solid	8015B NM	6589
LCS 880-6589/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6589
LCSD 880-6589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6589
890-1100-81 MS	SB-21C-2	Total/NA	Solid	8015B NM	6589
890-1100-81 MSD	SB-21C-2	Total/NA	Solid	8015B NM	6589

HPLC/IC

Leach Batch: 6529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-33	SB-29-2	Soluble	Solid	DI Leach	
890-1100-34	SB-29-4	Soluble	Solid	DI Leach	
890-1100-35	SB-29-10	Soluble	Solid	DI Leach	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

HPLC/IC (Continued)

Leach Batch: 6529 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-36	SB-29-15	Soluble	Solid	DI Leach	
890-1100-37	SB-29-25	Soluble	Solid	DI Leach	
890-1100-38	SB-22-2	Soluble	Solid	DI Leach	
890-1100-39	SB-22-4	Soluble	Solid	DI Leach	
890-1100-40	SB-22-15	Soluble	Solid	DI Leach	
890-1100-41	SB-22-30	Soluble	Solid	DI Leach	
890-1100-42	SB-22-45	Soluble	Solid	DI Leach	
MB 880-6529/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6529/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6529/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1100-35 MS	SB-29-10	Soluble	Solid	DI Leach	
890-1100-35 MSD	SB-29-10	Soluble	Solid	DI Leach	

Leach Batch: 6530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-1	SB-33-2	Soluble	Solid	DI Leach	
890-1100-2	SB-33-4	Soluble	Solid	DI Leach	
MB 880-6530/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6530/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6530/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 6531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-46	SB-19-20	Soluble	Solid	DI Leach	
890-1100-47	SB-19-45	Soluble	Solid	DI Leach	
890-1100-48	SB-19-50	Soluble	Solid	DI Leach	
890-1100-49	SB-18-2	Soluble	Solid	DI Leach	
890-1100-50	SB-18-4	Soluble	Solid	DI Leach	
890-1100-51	SB-18-30	Soluble	Solid	DI Leach	
890-1100-52	SB-18-55	Soluble	Solid	DI Leach	
890-1100-53	SB-18-60	Soluble	Solid	DI Leach	
890-1100-54	SB-21A-2	Soluble	Solid	DI Leach	
890-1100-55	SB-21A-4	Soluble	Solid	DI Leach	
890-1100-56	SB-21A-15	Soluble	Solid	DI Leach	
890-1100-57	SB-21A-35	Soluble	Solid	DI Leach	
890-1100-58	SB-21A-55	Soluble	Solid	DI Leach	
890-1100-59	SB-21A-60	Soluble	Solid	DI Leach	
890-1100-60	SB-28-2	Soluble	Solid	DI Leach	
890-1100-61	SB-28-4	Soluble	Solid	DI Leach	
890-1100-62	SB-28-20	Soluble	Solid	DI Leach	
890-1100-63	SB-28-25	Soluble	Solid	DI Leach	
890-1100-64	SB-28-40	Soluble	Solid	DI Leach	
890-1100-65	SB-28-45	Soluble	Solid	DI Leach	
MB 880-6531/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6531/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6531/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1100-46 MS	SB-19-20	Soluble	Solid	DI Leach	
890-1100-46 MSD	SB-19-20	Soluble	Solid	DI Leach	
890-1100-56 MS	SB-21A-15	Soluble	Solid	DI Leach	
890-1100-56 MSD	SB-21A-15	Soluble	Solid	DI Leach	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

HPLC/IC

Leach Batch: 6532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-66	SB-40A-2	Soluble	Solid	DI Leach	
890-1100-67	SB-40A-4	Soluble	Solid	DI Leach	
890-1100-68	SB-40A-10	Soluble	Solid	DI Leach	
890-1100-69	SB-40A-20	Soluble	Solid	DI Leach	
890-1100-70	SB-40A-25	Soluble	Solid	DI Leach	
890-1100-71	SB-27A-2	Soluble	Solid	DI Leach	
890-1100-72	SB-27A-4	Soluble	Solid	DI Leach	
890-1100-73	SB-27A-10	Soluble	Solid	DI Leach	
890-1100-74	SB-27A-15	Soluble	Solid	DI Leach	
890-1100-75	SB-27A-20	Soluble	Solid	DI Leach	
890-1100-76	SB-21B-2	Soluble	Solid	DI Leach	
890-1100-77	SB-21B-4	Soluble	Solid	DI Leach	
890-1100-78	SB-21B-6	Soluble	Solid	DI Leach	
890-1100-79	SB-21B-15	Soluble	Solid	DI Leach	
890-1100-80	SB-21B-20	Soluble	Solid	DI Leach	
890-1100-81	SB-21C-2	Soluble	Solid	DI Leach	
890-1100-82	SB-21C-4	Soluble	Solid	DI Leach	
890-1100-83	SB-21C-6	Soluble	Solid	DI Leach	
890-1100-84	SB-21C-15	Soluble	Solid	DI Leach	
890-1100-85	SB-21C-20	Soluble	Solid	DI Leach	
MB 880-6532/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6532/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6532/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1100-66 MS	SB-40A-2	Soluble	Solid	DI Leach	
890-1100-66 MSD	SB-40A-2	Soluble	Solid	DI Leach	
890-1100-76 MS	SB-21B-2	Soluble	Solid	DI Leach	
890-1100-76 MSD	SB-21B-2	Soluble	Solid	DI Leach	

Leach Batch: 6533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-13	SB-30-4	Soluble	Solid	DI Leach	
890-1100-14	SB-30-8	Soluble	Solid	DI Leach	
890-1100-15	SB-30-25	Soluble	Solid	DI Leach	
890-1100-16	SB-30-30	Soluble	Solid	DI Leach	
890-1100-17	SB-26-2	Soluble	Solid	DI Leach	
890-1100-18	SB-26-4	Soluble	Solid	DI Leach	
890-1100-19	SB-26-15	Soluble	Solid	DI Leach	
890-1100-20	SB-26-25	Soluble	Solid	DI Leach	
890-1100-21	SB-26-30	Soluble	Solid	DI Leach	
890-1100-22	SB-25-2	Soluble	Solid	DI Leach	
890-1100-23	SB-25-4	Soluble	Solid	DI Leach	
890-1100-24	SB-25-15	Soluble	Solid	DI Leach	
890-1100-25	SB-25-30	Soluble	Solid	DI Leach	
890-1100-26	SB-25-40	Soluble	Solid	DI Leach	
890-1100-27	SB-25-45	Soluble	Solid	DI Leach	
890-1100-28	SB-24-2	Soluble	Solid	DI Leach	
890-1100-29	SB-24-4	Soluble	Solid	DI Leach	
890-1100-30	SB-24-15	Soluble	Solid	DI Leach	
890-1100-31	SB-24-25	Soluble	Solid	DI Leach	
890-1100-32	SB-24-30	Soluble	Solid	DI Leach	
MB 880-6533/1-A	Method Blank	Soluble	Solid	DI Leach	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

HPLC/IC (Continued)

Leach Batch: 6533 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-6533/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6533/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1100-13 MS	SB-30-4	Soluble	Solid	DI Leach	
890-1100-13 MSD	SB-30-4	Soluble	Solid	DI Leach	
890-1100-23 MS	SB-25-4	Soluble	Solid	DI Leach	
890-1100-23 MSD	SB-25-4	Soluble	Solid	DI Leach	

Leach Batch: 6534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-3	SB-33-20	Soluble	Solid	DI Leach	
890-1100-4	SB-33-55	Soluble	Solid	DI Leach	
890-1100-5	SB-33-60	Soluble	Solid	DI Leach	
890-1100-6	SB-33-65	Soluble	Solid	DI Leach	
890-1100-7	SB-31-2	Soluble	Solid	DI Leach	
890-1100-8	SB-31-4	Soluble	Solid	DI Leach	
890-1100-9	SB-31-15	Soluble	Solid	DI Leach	
890-1100-10	SB-31-25	Soluble	Solid	DI Leach	
890-1100-11	SB-31-30	Soluble	Solid	DI Leach	
890-1100-12	SB-30-2	Soluble	Solid	DI Leach	
MB 880-6534/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6534/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6534/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1100-3 MS	SB-33-20	Soluble	Solid	DI Leach	
890-1100-3 MSD	SB-33-20	Soluble	Solid	DI Leach	

Analysis Batch: 6545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-33	SB-29-2	Soluble	Solid	300.0	6529
890-1100-34	SB-29-4	Soluble	Solid	300.0	6529
890-1100-35	SB-29-10	Soluble	Solid	300.0	6529
890-1100-36	SB-29-15	Soluble	Solid	300.0	6529
890-1100-37	SB-29-25	Soluble	Solid	300.0	6529
890-1100-38	SB-22-2	Soluble	Solid	300.0	6529
890-1100-39	SB-22-4	Soluble	Solid	300.0	6529
890-1100-40	SB-22-15	Soluble	Solid	300.0	6529
890-1100-41	SB-22-30	Soluble	Solid	300.0	6529
890-1100-42	SB-22-45	Soluble	Solid	300.0	6529
MB 880-6529/1-A	Method Blank	Soluble	Solid	300.0	6529
LCS 880-6529/2-A	Lab Control Sample	Soluble	Solid	300.0	6529
LCSD 880-6529/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6529
890-1100-35 MS	SB-29-10	Soluble	Solid	300.0	6529
890-1100-35 MSD	SB-29-10	Soluble	Solid	300.0	6529

Leach Batch: 6546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-43	SB-22-50	Soluble	Solid	DI Leach	
890-1100-44	SB-19-2	Soluble	Solid	DI Leach	
890-1100-45	SB-19-4	Soluble	Solid	DI Leach	
MB 880-6546/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6546/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6546/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

HPLC/IC

Analysis Batch: 6557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-43	SB-22-50	Soluble	Solid	300.0	6546
890-1100-44	SB-19-2	Soluble	Solid	300.0	6546
890-1100-45	SB-19-4	Soluble	Solid	300.0	6546
MB 880-6546/1-A	Method Blank	Soluble	Solid	300.0	6546
LCS 880-6546/2-A	Lab Control Sample	Soluble	Solid	300.0	6546
LCSD 880-6546/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6546

Analysis Batch: 6559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-1	SB-33-2	Soluble	Solid	300.0	6530
890-1100-2	SB-33-4	Soluble	Solid	300.0	6530
MB 880-6530/1-A	Method Blank	Soluble	Solid	300.0	6530
LCS 880-6530/2-A	Lab Control Sample	Soluble	Solid	300.0	6530
LCSD 880-6530/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6530

Analysis Batch: 6619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-3	SB-33-20	Soluble	Solid	300.0	6534
890-1100-4	SB-33-55	Soluble	Solid	300.0	6534
890-1100-5	SB-33-60	Soluble	Solid	300.0	6534
890-1100-6	SB-33-65	Soluble	Solid	300.0	6534
890-1100-7	SB-31-2	Soluble	Solid	300.0	6534
890-1100-8	SB-31-4	Soluble	Solid	300.0	6534
890-1100-9	SB-31-15	Soluble	Solid	300.0	6534
890-1100-10	SB-31-25	Soluble	Solid	300.0	6534
890-1100-11	SB-31-30	Soluble	Solid	300.0	6534
890-1100-12	SB-30-2	Soluble	Solid	300.0	6534
MB 880-6534/1-A	Method Blank	Soluble	Solid	300.0	6534
LCS 880-6534/2-A	Lab Control Sample	Soluble	Solid	300.0	6534
LCSD 880-6534/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6534
890-1100-3 MS	SB-33-20	Soluble	Solid	300.0	6534
890-1100-3 MSD	SB-33-20	Soluble	Solid	300.0	6534

Analysis Batch: 6621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-13	SB-30-4	Soluble	Solid	300.0	6533
890-1100-14	SB-30-8	Soluble	Solid	300.0	6533
890-1100-15	SB-30-25	Soluble	Solid	300.0	6533
890-1100-16	SB-30-30	Soluble	Solid	300.0	6533
890-1100-17	SB-26-2	Soluble	Solid	300.0	6533
890-1100-18	SB-26-4	Soluble	Solid	300.0	6533
890-1100-19	SB-26-15	Soluble	Solid	300.0	6533
890-1100-20	SB-26-25	Soluble	Solid	300.0	6533
890-1100-21	SB-26-30	Soluble	Solid	300.0	6533
890-1100-22	SB-25-2	Soluble	Solid	300.0	6533
890-1100-23	SB-25-4	Soluble	Solid	300.0	6533
890-1100-24	SB-25-15	Soluble	Solid	300.0	6533
890-1100-25	SB-25-30	Soluble	Solid	300.0	6533
890-1100-26	SB-25-40	Soluble	Solid	300.0	6533
890-1100-27	SB-25-45	Soluble	Solid	300.0	6533
890-1100-28	SB-24-2	Soluble	Solid	300.0	6533

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

HPLC/IC (Continued)

Analysis Batch: 6621 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-29	SB-24-4	Soluble	Solid	300.0	6533
890-1100-30	SB-24-15	Soluble	Solid	300.0	6533
890-1100-31	SB-24-25	Soluble	Solid	300.0	6533
890-1100-32	SB-24-30	Soluble	Solid	300.0	6533
MB 880-6533/1-A	Method Blank	Soluble	Solid	300.0	6533
LCS 880-6533/2-A	Lab Control Sample	Soluble	Solid	300.0	6533
LCSD 880-6533/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6533
890-1100-13 MS	SB-30-4	Soluble	Solid	300.0	6533
890-1100-13 MSD	SB-30-4	Soluble	Solid	300.0	6533
890-1100-23 MS	SB-25-4	Soluble	Solid	300.0	6533
890-1100-23 MSD	SB-25-4	Soluble	Solid	300.0	6533

Analysis Batch: 6622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-46	SB-19-20	Soluble	Solid	300.0	6531
890-1100-47	SB-19-45	Soluble	Solid	300.0	6531
890-1100-48	SB-19-50	Soluble	Solid	300.0	6531
890-1100-49	SB-18-2	Soluble	Solid	300.0	6531
890-1100-50	SB-18-4	Soluble	Solid	300.0	6531
890-1100-51	SB-18-30	Soluble	Solid	300.0	6531
890-1100-52	SB-18-55	Soluble	Solid	300.0	6531
890-1100-53	SB-18-60	Soluble	Solid	300.0	6531
890-1100-54	SB-21A-2	Soluble	Solid	300.0	6531
890-1100-55	SB-21A-4	Soluble	Solid	300.0	6531
890-1100-56	SB-21A-15	Soluble	Solid	300.0	6531
890-1100-57	SB-21A-35	Soluble	Solid	300.0	6531
890-1100-58	SB-21A-55	Soluble	Solid	300.0	6531
890-1100-59	SB-21A-60	Soluble	Solid	300.0	6531
890-1100-60	SB-28-2	Soluble	Solid	300.0	6531
890-1100-61	SB-28-4	Soluble	Solid	300.0	6531
890-1100-62	SB-28-20	Soluble	Solid	300.0	6531
890-1100-63	SB-28-25	Soluble	Solid	300.0	6531
890-1100-64	SB-28-40	Soluble	Solid	300.0	6531
890-1100-65	SB-28-45	Soluble	Solid	300.0	6531
MB 880-6531/1-A	Method Blank	Soluble	Solid	300.0	6531
LCS 880-6531/2-A	Lab Control Sample	Soluble	Solid	300.0	6531
LCSD 880-6531/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6531
890-1100-46 MS	SB-19-20	Soluble	Solid	300.0	6531
890-1100-46 MSD	SB-19-20	Soluble	Solid	300.0	6531
890-1100-56 MS	SB-21A-15	Soluble	Solid	300.0	6531
890-1100-56 MSD	SB-21A-15	Soluble	Solid	300.0	6531

Analysis Batch: 6623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-66	SB-40A-2	Soluble	Solid	300.0	6532
890-1100-67	SB-40A-4	Soluble	Solid	300.0	6532
890-1100-68	SB-40A-10	Soluble	Solid	300.0	6532
890-1100-69	SB-40A-20	Soluble	Solid	300.0	6532
890-1100-70	SB-40A-25	Soluble	Solid	300.0	6532
890-1100-71	SB-27A-2	Soluble	Solid	300.0	6532
890-1100-72	SB-27A-4	Soluble	Solid	300.0	6532

QC Association Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

HPLC/IC (Continued)

Analysis Batch: 6623 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1100-73	SB-27A-10	Soluble	Solid	300.0	6532
890-1100-74	SB-27A-15	Soluble	Solid	300.0	6532
890-1100-75	SB-27A-20	Soluble	Solid	300.0	6532
890-1100-76	SB-21B-2	Soluble	Solid	300.0	6532
890-1100-77	SB-21B-4	Soluble	Solid	300.0	6532
890-1100-78	SB-21B-6	Soluble	Solid	300.0	6532
890-1100-79	SB-21B-15	Soluble	Solid	300.0	6532
890-1100-80	SB-21B-20	Soluble	Solid	300.0	6532
890-1100-81	SB-21C-2	Soluble	Solid	300.0	6532
890-1100-82	SB-21C-4	Soluble	Solid	300.0	6532
890-1100-83	SB-21C-6	Soluble	Solid	300.0	6532
890-1100-84	SB-21C-15	Soluble	Solid	300.0	6532
890-1100-85	SB-21C-20	Soluble	Solid	300.0	6532
MB 880-6532/1-A	Method Blank	Soluble	Solid	300.0	6532
LCS 880-6532/2-A	Lab Control Sample	Soluble	Solid	300.0	6532
LCSD 880-6532/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6532
890-1100-66 MS	SB-40A-2	Soluble	Solid	300.0	6532
890-1100-66 MSD	SB-40A-2	Soluble	Solid	300.0	6532
890-1100-76 MS	SB-21B-2	Soluble	Solid	300.0	6532
890-1100-76 MSD	SB-21B-2	Soluble	Solid	300.0	6532

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-33-2
Date Collected: 08/08/21 17:20
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/13/21 23:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/14/21 22:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6530	08/13/21 14:48	CH	XEN MID
Soluble	Analysis	300.0		1			6559	08/14/21 09:11	CH	XEN MID

Client Sample ID: SB-33-4
Date Collected: 08/08/21 17:25
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 00:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/14/21 23:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6530	08/13/21 14:48	CH	XEN MID
Soluble	Analysis	300.0		1			6559	08/14/21 09:17	CH	XEN MID

Client Sample ID: SB-33-20
Date Collected: 08/08/21 17:50
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 00:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/14/21 23:49	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6534	08/13/21 14:57	CH	XEN MID
Soluble	Analysis	300.0		5			6619	08/16/21 17:48	CH	XEN MID

Client Sample ID: SB-33-55
Date Collected: 08/09/21 11:30
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 00:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 00:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6534	08/13/21 14:57	CH	XEN MID
Soluble	Analysis	300.0		1			6619	08/16/21 18:05	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-33-60
Date Collected: 08/09/21 12:00
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 01:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 00:30	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6534	08/13/21 14:57	CH	XEN MID
Soluble	Analysis	300.0		1			6619	08/16/21 18:11	CH	XEN MID

Client Sample ID: SB-33-65
Date Collected: 08/09/21 12:15
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 01:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6591	08/16/21 15:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6534	08/13/21 14:57	CH	XEN MID
Soluble	Analysis	300.0		1			6619	08/16/21 18:28	CH	XEN MID

Client Sample ID: SB-31-2
Date Collected: 08/09/21 13:55
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 01:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 01:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6534	08/13/21 14:57	CH	XEN MID
Soluble	Analysis	300.0		1			6619	08/16/21 18:33	CH	XEN MID

Client Sample ID: SB-31-4
Date Collected: 08/09/21 14:00
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 02:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 01:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6534	08/13/21 14:57	CH	XEN MID
Soluble	Analysis	300.0		1			6619	08/16/21 18:39	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-31-15
Date Collected: 08/09/21 14:20
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 02:35	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 01:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6534	08/13/21 14:57	CH	XEN MID
Soluble	Analysis	300.0		10			6619	08/16/21 18:44	CH	XEN MID

Client Sample ID: SB-31-25
Date Collected: 08/09/21 14:30
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 02:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 02:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6534	08/13/21 14:57	CH	XEN MID
Soluble	Analysis	300.0		1			6619	08/16/21 18:50	CH	XEN MID

Client Sample ID: SB-31-30
Date Collected: 08/09/21 14:35
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 04:21	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 02:55	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6534	08/13/21 14:57	CH	XEN MID
Soluble	Analysis	300.0		1			6619	08/16/21 18:56	CH	XEN MID

Client Sample ID: SB-30-2
Date Collected: 08/09/21 14:50
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 04:41	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 03:16	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6534	08/13/21 14:57	CH	XEN MID
Soluble	Analysis	300.0		1			6619	08/16/21 19:01	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-30-4
Date Collected: 08/09/21 14:55
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 05:02	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 03:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 19:46	CH	XEN MID

Client Sample ID: SB-30-8
Date Collected: 08/09/21 15:05
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 05:23	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 03:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		5			6621	08/16/21 20:03	CH	XEN MID

Client Sample ID: SB-30-25
Date Collected: 08/09/21 15:25
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 05:43	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 04:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 20:09	CH	XEN MID

Client Sample ID: SB-30-30
Date Collected: 08/09/21 15:30
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 06:04	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 04:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 20:14	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-26-2
Date Collected: 08/10/21 11:50
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 06:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 04:59	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 20:20	CH	XEN MID

Client Sample ID: SB-26-4
Date Collected: 08/10/21 12:00
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 06:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 05:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 20:37	CH	XEN MID

Client Sample ID: SB-26-15
Date Collected: 08/10/21 12:20
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 07:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 05:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		5			6621	08/16/21 20:42	CH	XEN MID

Client Sample ID: SB-26-25
Date Collected: 08/10/21 12:35
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6479	08/13/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 07:27	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6569	08/14/21 09:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6570	08/15/21 06:01	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 20:48	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-26-30
Date Collected: 08/10/21 12:45
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 06:01	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 12:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 20:53	CH	XEN MID

Client Sample ID: SB-25-2
Date Collected: 08/10/21 13:50
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 06:22	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 13:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 20:59	CH	XEN MID

Client Sample ID: SB-25-4
Date Collected: 08/10/21 13:55
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 06:42	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 14:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 21:05	CH	XEN MID

Client Sample ID: SB-25-15
Date Collected: 08/10/21 14:10
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 07:03	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 14:36	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 21:21	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-25-30
Date Collected: 08/10/21 14:25
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 07:23	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 14:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		5			6621	08/16/21 21:27	CH	XEN MID

Client Sample ID: SB-25-40
Date Collected: 08/10/21 14:35
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 07:44	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 15:17	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 21:44	CH	XEN MID

Client Sample ID: SB-25-45
Date Collected: 08/10/21 14:55
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 08:04	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 15:38	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 21:49	CH	XEN MID

Client Sample ID: SB-24-2
Date Collected: 08/10/21 15:05
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 08:24	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 15:59	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 21:55	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-24-4
Date Collected: 08/10/21 15:10
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 08:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 16:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 22:01	CH	XEN MID

Client Sample ID: SB-24-15
Date Collected: 08/10/21 15:30
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 09:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 16:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		5			6621	08/16/21 22:06	CH	XEN MID

Client Sample ID: SB-24-25
Date Collected: 08/10/21 15:40
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 10:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 17:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 22:12	CH	XEN MID

Client Sample ID: SB-24-30
Date Collected: 08/10/21 15:45
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 11:15	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 17:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6533	08/13/21 14:54	CH	XEN MID
Soluble	Analysis	300.0		1			6621	08/16/21 22:17	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-29-2
Date Collected: 08/10/21 16:00
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 11:36	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 18:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6529	08/13/21 14:46	CH	XEN MID
Soluble	Analysis	300.0		1			6545	08/13/21 21:05	CH	XEN MID

Client Sample ID: SB-29-4
Date Collected: 08/10/21 16:05
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 11:56	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 18:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6529	08/13/21 14:46	CH	XEN MID
Soluble	Analysis	300.0		1			6545	08/13/21 21:10	CH	XEN MID

Client Sample ID: SB-29-10
Date Collected: 08/10/21 16:20
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 12:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 18:49	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6529	08/13/21 14:46	CH	XEN MID
Soluble	Analysis	300.0		1			6545	08/13/21 21:15	CH	XEN MID

Client Sample ID: SB-29-15
Date Collected: 08/10/21 16:25
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 12:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 19:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6529	08/13/21 14:46	CH	XEN MID
Soluble	Analysis	300.0		1			6545	08/13/21 21:29	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-29-25
Date Collected: 08/10/21 16:35
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 12:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 19:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6529	08/13/21 14:46	CH	XEN MID
Soluble	Analysis	300.0		1			6545	08/13/21 21:34	CH	XEN MID

Client Sample ID: SB-22-2
Date Collected: 08/11/21 08:45
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 13:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 19:54	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6529	08/13/21 14:46	CH	XEN MID
Soluble	Analysis	300.0		1			6545	08/13/21 21:49	CH	XEN MID

Client Sample ID: SB-22-4
Date Collected: 08/11/21 08:50
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 13:38	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 20:15	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6529	08/13/21 14:46	CH	XEN MID
Soluble	Analysis	300.0		1			6545	08/13/21 21:54	CH	XEN MID

Client Sample ID: SB-22-15
Date Collected: 08/11/21 09:20
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6497	08/13/21 09:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6512	08/14/21 13:59	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6577	08/14/21 11:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6580	08/15/21 20:37	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6529	08/13/21 14:46	CH	XEN MID
Soluble	Analysis	300.0		5			6545	08/13/21 21:59	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-22-30
Date Collected: 08/11/21 11:40
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 10:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 13:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6529	08/13/21 14:46	CH	XEN MID
Soluble	Analysis	300.0		5			6545	08/13/21 22:04	CH	XEN MID

Client Sample ID: SB-22-45
Date Collected: 08/11/21 12:20
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 11:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 12:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6529	08/13/21 14:46	CH	XEN MID
Soluble	Analysis	300.0		1			6545	08/13/21 22:09	CH	XEN MID

Client Sample ID: SB-22-50
Date Collected: 08/11/21 12:35
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 11:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 14:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6546	08/13/21 20:38	SC	XEN MID
Soluble	Analysis	300.0		1			6557	08/14/21 02:33	CH	XEN MID

Client Sample ID: SB-19-2
Date Collected: 08/11/21 12:45
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 11:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 14:36	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6546	08/13/21 20:38	SC	XEN MID
Soluble	Analysis	300.0		1			6557	08/14/21 02:39	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-19-4
Date Collected: 08/11/21 12:50
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-45
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 12:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 14:57	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6546	08/13/21 20:38	SC	XEN MID
Soluble	Analysis	300.0		1			6557	08/14/21 02:44	CH	XEN MID

Client Sample ID: SB-19-20
Date Collected: 08/11/21 13:20
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-46
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 12:33	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 15:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/16/21 23:02	CH	XEN MID

Client Sample ID: SB-19-45
Date Collected: 08/11/21 14:05
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 12:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 15:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/16/21 23:19	CH	XEN MID

Client Sample ID: SB-19-50
Date Collected: 08/11/21 14:15
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-48
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 13:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 15:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/16/21 23:25	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-18-2
Date Collected: 08/11/21 14:20
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-49
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 13:34	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 16:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/16/21 23:30	CH	XEN MID

Client Sample ID: SB-18-4
Date Collected: 08/11/21 14:25
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-50
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 13:54	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 16:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/16/21 23:36	CH	XEN MID

Client Sample ID: SB-18-30
Date Collected: 08/11/21 15:20
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-51
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 15:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 17:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		10			6622	08/16/21 23:53	CH	XEN MID

Client Sample ID: SB-18-55
Date Collected: 08/11/21 16:25
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-52
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 15:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 17:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/16/21 23:58	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-18-60
Date Collected: 08/11/21 16:40
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-53
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 15:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 18:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/17/21 00:04	CH	XEN MID

Client Sample ID: SB-21A-2
Date Collected: 08/11/21 16:50
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-54
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 16:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 18:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/17/21 00:10	CH	XEN MID

Client Sample ID: SB-21A-4
Date Collected: 08/11/21 16:55
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-55
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 16:38	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 18:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/17/21 00:15	CH	XEN MID

Client Sample ID: SB-21A-15
Date Collected: 08/11/21 17:20
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-56
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 16:59	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 19:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		10			6622	08/17/21 00:21	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21A-35
Date Collected: 08/11/21 17:50
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-57
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 17:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 19:32	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		10			6622	08/17/21 00:38	CH	XEN MID

Client Sample ID: SB-21A-55
Date Collected: 08/11/21 18:50
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-58
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 17:39	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 19:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/17/21 00:43	CH	XEN MID

Client Sample ID: SB-21A-60
Date Collected: 08/11/21 19:00
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-59
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 18:00	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 20:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/17/21 01:00	CH	XEN MID

Client Sample ID: SB-28-2
Date Collected: 08/10/21 10:20
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-60
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6492	08/13/21 08:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 18:20	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6578	08/14/21 12:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6582	08/15/21 20:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/17/21 01:06	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-28-4
Date Collected: 08/10/21 10:25
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-61
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 13:44	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 12:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/17/21 01:11	CH	XEN MID

Client Sample ID: SB-28-20
Date Collected: 08/10/21 10:50
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-62
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 14:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 13:18	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		5			6622	08/17/21 01:17	CH	XEN MID

Client Sample ID: SB-28-25
Date Collected: 08/10/21 10:55
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-63
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 14:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 13:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		5			6622	08/17/21 01:22	CH	XEN MID

Client Sample ID: SB-28-40
Date Collected: 08/10/21 11:30
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-64
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 14:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 14:01	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/17/21 01:28	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-28-45
Date Collected: 08/10/21 11:45
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-65
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 15:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 14:22	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6531	08/13/21 14:50	CH	XEN MID
Soluble	Analysis	300.0		1			6622	08/17/21 01:34	CH	XEN MID

Client Sample ID: SB-40A-2
Date Collected: 08/12/21 08:05
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-66
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 15:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 14:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 02:18	CH	XEN MID

Client Sample ID: SB-40A-4
Date Collected: 08/12/21 08:10
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-67
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 15:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 15:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 08:18	CH	XEN MID

Client Sample ID: SB-40A-10
Date Collected: 08/12/21 08:40
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-68
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 16:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 15:26	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 08:23	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-40A-20
Date Collected: 08/12/21 08:50
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-69
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 16:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 15:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 08:29	CH	XEN MID

Client Sample ID: SB-40A-25
Date Collected: 08/12/21 08:55
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-70
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 16:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 16:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 08:35	CH	XEN MID

Client Sample ID: SB-27A-2
Date Collected: 08/12/21 09:10
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-71
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 18:17	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 16:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 08:51	CH	XEN MID

Client Sample ID: SB-27A-4
Date Collected: 08/12/21 09:15
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-72
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 18:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 17:13	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 08:57	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-27A-10
Date Collected: 08/12/21 09:40
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-73
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 18:58	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 17:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 09:03	CH	XEN MID

Client Sample ID: SB-27A-15
Date Collected: 08/12/21 09:45
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-74
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 19:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 17:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 09:08	CH	XEN MID

Client Sample ID: SB-27A-20
Date Collected: 08/12/21 09:50
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-75
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 19:40	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 18:17	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 09:14	CH	XEN MID

Client Sample ID: SB-21B-2
Date Collected: 08/12/21 10:00
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-76
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 20:01	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 18:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 09:19	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21B-4
Date Collected: 08/12/21 10:05
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-77
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 20:21	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 19:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 09:36	CH	XEN MID

Client Sample ID: SB-21B-6
Date Collected: 08/12/21 10:20
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-78
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 20:42	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 19:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		5			6623	08/17/21 09:42	CH	XEN MID

Client Sample ID: SB-21B-15
Date Collected: 08/12/21 10:35
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-79
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6494	08/13/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 21:03	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 19:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 09:59	CH	XEN MID

Client Sample ID: SB-21B-20
Date Collected: 08/12/21 10:40
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-80
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6494	08/13/21 08:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6495	08/14/21 21:24	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6579	08/14/21 12:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6584	08/15/21 20:04	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 10:04	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21C-2
Date Collected: 08/12/21 11:20
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-81
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6514	08/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 21:44	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6589	08/16/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6591	08/16/21 13:15	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 10:10	CH	XEN MID

Client Sample ID: SB-21C-4
Date Collected: 08/12/21 11:25
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-82
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6514	08/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 22:04	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6589	08/16/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6591	08/16/21 14:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 10:16	CH	XEN MID

Client Sample ID: SB-21C-6
Date Collected: 08/12/21 11:30
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-83
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6514	08/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 22:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6589	08/16/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6591	08/16/21 14:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 10:21	CH	XEN MID

Client Sample ID: SB-21C-15
Date Collected: 08/12/21 11:45
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-84
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	6514	08/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 22:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6589	08/16/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6591	08/16/21 14:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 10:27	CH	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Client Sample ID: SB-21C-20

Date Collected: 08/12/21 11:50
Date Received: 08/12/21 13:46

Lab Sample ID: 890-1100-85

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6514	08/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6493	08/14/21 23:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6589	08/16/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6591	08/16/21 15:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6532	08/13/21 14:52	CH	XEN MID
Soluble	Analysis	300.0		1			6623	08/17/21 10:32	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: GHD Services Inc. Job ID: 890-1100-1
Project/Site: Flamenco #1 SDG: 11220747

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1100-1	SB-33-2	Solid	08/08/21 17:20	08/12/21 13:46	- 2
890-1100-2	SB-33-4	Solid	08/08/21 17:25	08/12/21 13:46	- 4
890-1100-3	SB-33-20	Solid	08/08/21 17:50	08/12/21 13:46	- 20
890-1100-4	SB-33-55	Solid	08/09/21 11:30	08/12/21 13:46	- 55
890-1100-5	SB-33-60	Solid	08/09/21 12:00	08/12/21 13:46	- 60
890-1100-6	SB-33-65	Solid	08/09/21 12:15	08/12/21 13:46	- 65
890-1100-7	SB-31-2	Solid	08/09/21 13:55	08/12/21 13:46	- 2
890-1100-8	SB-31-4	Solid	08/09/21 14:00	08/12/21 13:46	- 4
890-1100-9	SB-31-15	Solid	08/09/21 14:20	08/12/21 13:46	- 15
890-1100-10	SB-31-25	Solid	08/09/21 14:30	08/12/21 13:46	- 25
890-1100-11	SB-31-30	Solid	08/09/21 14:35	08/12/21 13:46	- 30
890-1100-12	SB-30-2	Solid	08/09/21 14:50	08/12/21 13:46	- 2
890-1100-13	SB-30-4	Solid	08/09/21 14:55	08/12/21 13:46	- 4
890-1100-14	SB-30-8	Solid	08/09/21 15:05	08/12/21 13:46	- 8
890-1100-15	SB-30-25	Solid	08/09/21 15:25	08/12/21 13:46	- 25
890-1100-16	SB-30-30	Solid	08/09/21 15:30	08/12/21 13:46	- 30
890-1100-17	SB-26-2	Solid	08/10/21 11:50	08/12/21 13:46	- 2
890-1100-18	SB-26-4	Solid	08/10/21 12:00	08/12/21 13:46	- 4
890-1100-19	SB-26-15	Solid	08/10/21 12:20	08/12/21 13:46	- 15
890-1100-20	SB-26-25	Solid	08/10/21 12:35	08/12/21 13:46	- 25
890-1100-21	SB-26-30	Solid	08/10/21 12:45	08/12/21 13:46	- 30
890-1100-22	SB-25-2	Solid	08/10/21 13:50	08/12/21 13:46	- 2
890-1100-23	SB-25-4	Solid	08/10/21 13:55	08/12/21 13:46	- 4
890-1100-24	SB-25-15	Solid	08/10/21 14:10	08/12/21 13:46	- 15
890-1100-25	SB-25-30	Solid	08/10/21 14:25	08/12/21 13:46	- 30
890-1100-26	SB-25-40	Solid	08/10/21 14:35	08/12/21 13:46	- 40
890-1100-27	SB-25-45	Solid	08/10/21 14:55	08/12/21 13:46	- 45
890-1100-28	SB-24-2	Solid	08/10/21 15:05	08/12/21 13:46	- 2
890-1100-29	SB-24-4	Solid	08/10/21 15:10	08/12/21 13:46	- 4
890-1100-30	SB-24-15	Solid	08/10/21 15:30	08/12/21 13:46	- 15
890-1100-31	SB-24-25	Solid	08/10/21 15:40	08/12/21 13:46	- 25
890-1100-32	SB-24-30	Solid	08/10/21 15:45	08/12/21 13:46	- 30
890-1100-33	SB-29-2	Solid	08/10/21 16:00	08/12/21 13:46	- 2
890-1100-34	SB-29-4	Solid	08/10/21 16:05	08/12/21 13:46	- 4
890-1100-35	SB-29-10	Solid	08/10/21 16:20	08/12/21 13:46	- 10
890-1100-36	SB-29-15	Solid	08/10/21 16:25	08/12/21 13:46	- 15
890-1100-37	SB-29-25	Solid	08/10/21 16:35	08/12/21 13:46	- 25
890-1100-38	SB-22-2	Solid	08/11/21 08:45	08/12/21 13:46	- 2
890-1100-39	SB-22-4	Solid	08/11/21 08:50	08/12/21 13:46	- 4
890-1100-40	SB-22-15	Solid	08/11/21 09:20	08/12/21 13:46	- 15
890-1100-41	SB-22-30	Solid	08/11/21 11:40	08/12/21 13:46	- 30
890-1100-42	SB-22-45	Solid	08/11/21 12:20	08/12/21 13:46	- 45
890-1100-43	SB-22-50	Solid	08/11/21 12:35	08/12/21 13:46	- 50
890-1100-44	SB-19-2	Solid	08/11/21 12:45	08/12/21 13:46	- 2
890-1100-45	SB-19-4	Solid	08/11/21 12:50	08/12/21 13:46	- 4
890-1100-46	SB-19-20	Solid	08/11/21 13:20	08/12/21 13:46	- 20
890-1100-47	SB-19-45	Solid	08/11/21 14:05	08/12/21 13:46	- 45
890-1100-48	SB-19-50	Solid	08/11/21 14:15	08/12/21 13:46	- 50
890-1100-49	SB-18-2	Solid	08/11/21 14:20	08/12/21 13:46	- 2
890-1100-50	SB-18-4	Solid	08/11/21 14:25	08/12/21 13:46	- 4
890-1100-51	SB-18-30	Solid	08/11/21 15:20	08/12/21 13:46	- 30
890-1100-52	SB-18-55	Solid	08/11/21 16:25	08/12/21 13:46	- 55
890-1100-53	SB-18-60	Solid	08/11/21 16:40	08/12/21 13:46	- 60
890-1100-54	SB-21A-2	Solid	08/11/21 16:50	08/12/21 13:46	- 2
890-1100-55	SB-21A-4	Solid	08/11/21 16:55	08/12/21 13:46	- 4
890-1100-56	SB-21A-15	Solid	08/11/21 17:20	08/12/21 13:46	- 15

Sample Summary

Client: GHD Services Inc.
Project/Site: Flamenco #1

Job ID: 890-1100-1
SDG: 11220747

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1100-57	SB-21A-35	Solid	08/11/21 17:50	08/12/21 13:46	- 35
890-1100-58	SB-21A-55	Solid	08/11/21 18:50	08/12/21 13:46	- 55
890-1100-59	SB-21A-60	Solid	08/11/21 19:00	08/12/21 13:46	- 60
890-1100-60	SB-28-2	Solid	08/10/21 10:20	08/12/21 13:46	- 2
890-1100-61	SB-28-4	Solid	08/10/21 10:25	08/12/21 13:46	- 4
890-1100-62	SB-28-20	Solid	08/10/21 10:50	08/12/21 13:46	- 20
890-1100-63	SB-28-25	Solid	08/10/21 10:55	08/12/21 13:46	- 25
890-1100-64	SB-28-40	Solid	08/10/21 11:30	08/12/21 13:46	- 40
890-1100-65	SB-28-45	Solid	08/10/21 11:45	08/12/21 13:46	- 45
890-1100-66	SB-40A-2	Solid	08/12/21 08:05	08/12/21 13:46	- 2
890-1100-67	SB-40A-4	Solid	08/12/21 08:10	08/12/21 13:46	- 4
890-1100-68	SB-40A-10	Solid	08/12/21 08:40	08/12/21 13:46	- 10
890-1100-69	SB-40A-20	Solid	08/12/21 08:50	08/12/21 13:46	- 20
890-1100-70	SB-40A-25	Solid	08/12/21 08:55	08/12/21 13:46	- 25
890-1100-71	SB-27A-2	Solid	08/12/21 09:10	08/12/21 13:46	- 2
890-1100-72	SB-27A-4	Solid	08/12/21 09:15	08/12/21 13:46	- 4
890-1100-73	SB-27A-10	Solid	08/12/21 09:40	08/12/21 13:46	- 10
890-1100-74	SB-27A-15	Solid	08/12/21 09:45	08/12/21 13:46	- 15
890-1100-75	SB-27A-20	Solid	08/12/21 09:50	08/12/21 13:46	- 20
890-1100-76	SB-21B-2	Solid	08/12/21 10:00	08/12/21 13:46	- 2
890-1100-77	SB-21B-4	Solid	08/12/21 10:05	08/12/21 13:46	- 4
890-1100-78	SB-21B-6	Solid	08/12/21 10:20	08/12/21 13:46	- 6
890-1100-79	SB-21B-15	Solid	08/12/21 10:35	08/12/21 13:46	- 15
890-1100-80	SB-21B-20	Solid	08/12/21 10:40	08/12/21 13:46	- 20
890-1100-81	SB-21C-2	Solid	08/12/21 11:20	08/12/21 13:46	- 2
890-1100-82	SB-21C-4	Solid	08/12/21 11:25	08/12/21 13:46	- 4
890-1100-83	SB-21C-6	Solid	08/12/21 11:30	08/12/21 13:46	- 6
890-1100-84	SB-21C-15	Solid	08/12/21 11:45	08/12/21 13:46	- 15
890-1100-85	SB-21C-20	Solid	08/12/21 11:50	08/12/21 13:46	- 20

Page 684 of 713

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 9

Project Manager:	Becky Haskell	Bill to: (if different)	James Kennedy
Company Name:	GHD	Company Name:	EOG
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	432 250 7917	Email:	Becky.Haskell@ghd.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flamenco #1	Turn Around	
Project Number:	11220747	☐ Routine ☑ Rush	
Project Location:		Due Date:	3 Day
Sampler's Name:	Charles Nelson	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	NM-087
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	4.2
Total Containers:		Corrected Temperature:	4.0

ANALYSIS REQUEST

Parameters: Chloride 300 | BTEX 8021 | TPH 8015 (MRO, DRO, GRO)

890-1100 Chain of Custody

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Sample Comments
SB-33-2'	S	8-8-21	1720		G	1	
SB-33-4'			1725				
SB-33-20'			1750				
SB-33-55'		8-9-21	1130				
SB-33-60'		8-9-21	1200				
SB-33-65'		8-9-21	1215				
SB-31-2'		8-9-21	1355				
SB-31-4'			1400				
SB-31-15'			1420				
SB-31-25'			1430				

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and ~~Metal(s) to be analyzed~~ TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8.12.21 1315	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020 2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

8/18/2021 (Rev. 1)

Page 132 of 145

Page 685 of 713

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 9

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐Routine ☐Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride 300	BTEX 8021	TPH 8015	Sample Comments
SB-31-30'	S	8.9.21	1435		G	1					
SB-30-2'			1450								
SB-30-4'			1455								
SB-30-8'			1605								
SB-30-25'			1525								
SB-30-30'		↓	1530								
SB-26-2'		8-10-21	1150								
SB-26-4'			1200								
SB-26-15'			1220								
SB-26-25'	✓	↓	1235		↓	✓		✓	✓	✓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed ~~TCLP / SPLP 6010~~: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

8/18/2021 (Rev. 1)

Page 133 of 145

Page 686 of 713

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 3 of 9

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐Routine ☐Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT					
Temp Blank:	Yes No	Wet Ice:	Yes No		
Samples Received Intact:	Yes No	Thermometer ID:			
Cooler Custody Seals:	Yes No N/A	Correction Factor:			
Sample Custody Seals:	Yes No N/A	Temperature Reading:			
Total Containers:		Corrected Temperature:			

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride 300	BTEX 8021	TPH 8015	Sample Comments
SB-24-30'	S	8/[illegible]/21	1245		G	1					
SB-25-2'		8-10	1350								
SB-25-4'			1355								
SB-25-15'			1410								
SB-25-30'			1425								
SB-25 40'			1435								
SB-2545			1455								
SB-24-2'			1505								
SB-24-4'			1510								
SB-24-15'	↓	↓	1530		↓	↓		↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 2/28/2022 3:03:33 PM

8/18/2021 (Rev. 1)

Page 134 of 145

Released to Imaging: 5/2/2022 3:32:26 PM

Page 687 of 713

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 4 of 9

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐Routine ☐Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters	Sample Comments
SB-24-25'	S	8-10-21	1540		G	1			
SB-24-30'		8-10-21	1545						
SB-29-2'		8-10-21	1600						
SB-29-4'			1605						
SB-29-10'			1620						
SB-29-15'			1625						
SB-29-25'			1635						
SB-22-2'		8-11-21	0845						
SB-22-4'			0850						
SB-22-15'	↓	↓	0920		↓	↓			

ANALYSIS REQUEST

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed ~~TCLP / SPLP 6010~~: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

Received by OCD: 2/28/2022 3:03:33 PM

8/18/2021 (Rev. 1)

Page 135 of 145

Released to Imaging: 5/2/2022 3:32:26 PM

Page 688 of 713

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 5 of 9

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐Routine ☐Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2S0_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride 300	BTEX 8021	TPH 8015	Sample Comments
SB-22-30'	S	8-11-21	1140		G	1					
SB-22-45'			1220								
SB-22-50			1235								
SB-19-2'			1245								
SB-19-4'			1250								
SB-19-20'			1320								
SB-19-45'			1405								
SB-19-50'			1415								
SB-18-2'			1420								
SB-18-4'			1425								

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed ~~TCLP / SPLP 6010~~: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

8/18/2021 (Rev. 1)
Page 136 of 145
Received by OCD: 2/28/2022 3:03:33 PM
Released to Imaging: 5/2/2022 3:32:26 PM

Page 689 of 713

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 6 of 9

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐Routine ☐Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride 300	BTEX 8021	TPH 8015	Sample Comments
SB-18-30'	S	8-11-21	1520		G	1					
SB-18-55'			1625								
SB-18-60'			1640								
SB-21A-2'			1650								
SB-21A-4'			1655								
SB-21A-15'			1720								
SB-21A-35'			1750								
SB-21A-55'			1850								
SB-21A-60'			1900								
SB-28-2'	S	8-10-21	1020		G	1					

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

8/18/2021 (Rev. 1)
Page 137 of 145
Received by OCD: 2/28/2022 3:03:33 PM
Released to Imaging: 5/2/2022 3:32:26 PM

Page 690 of 713

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 7 of 9

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐Routine ☐Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride 300.0	BTEX 8021	TPH 8015	Sample Comments
SB-28-4'	S	8-10-21	1025		G	1					
SB-28-20'			1050								
SB-28-25'			1055								
SB-28-40'			1130								
SB-28-45'		↓	1145								
SB-40A-2'		8-12-21	0805								
SB-40A-4'			0810								
SB-40A-10'			0840								
SB-40A-20'			0850								
SB-40A-25'	↓		0855		↓	↓		↓	↓	↓	

Total 200.7 / 6010 **200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and ~~Metal(s) to be analyzed~~ ~~TCLP / SPLP 6010~~: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

Received by OCD: 2/28/2022 3:03:33 PM

8/18/2021 (Rev. 1)

Page 138 of 145

Released to Imaging: 5/2/2022 3:32:26 PM

Page 691 of 713

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 8 of 9

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐Routine ☐Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides 300.0	BTEX 8021	TPH 8015	Sample Comments
SB-27A-2'	S	8-12-21	0910		G	1		X	X	X	
SB-27A-4'			0915								
SB-27A-10'			0940								
SB-27A-15'			0945								
SB-27A-20'			0950								
SB-21B-2'			1000								
SB-21B-4'			1005								
SB-21B-6'			1020								
SB-21B-15'			1035								
SB-21B-20'	↓	↓	1040		↓	↓		↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed ~~TCLP / SPLP 6010~~: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

8/18/2021 (Rev. 1)
Page 139 of 145
Received by OCD: 2/28/2022 3:03:33 PM
Released to Imaging: 5/2/2022 3:32:26 PM

Page 692 of 713

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 9 of 9

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐Routine ☐Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride 300	BTEX 8021	TPH 8015 MOD, GRO PRO	Sample Comments
SB-21C-2'	S	8-12-21	1120		G	1					
SB-21C-4'			1125								
SB-21C-6'			1130								
SB-21C-15'			1145								
SB-21C-20'	↓	↓	1150		↓	↓		↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and ~~Metal(s) to be analyzed~~ **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

8/18/2021 (Rev. 1)
Page 140 of 145
Received by OCD: 2/28/2022 3:03:33 PM
Released to Imaging: 5/2/2022 3:32:26 PM

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Simmons, Debbie	Carrier Tracking No(s):	COC No: 890-349 1
Client Contact: Shipping/Receiving	Phone	E-Mail: debbie simmons@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 10
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-1100-1
Address: 1211 W Florida Ave ,	Due Date Requested: 8/18/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Flamenco #1	Project #: 88000221			
Site	SSOW#			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH - NM	8021B/5035FP_Calc BTEX (bulk jar/FP prep)	300_ORGFM_28D/DI_LEACH Chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
BH-33-2 (890-1100-1)	8/8/21	Mountain		Solid			X	X	X	1	
BH-33-4 (890-1100-2)	8/8/21	Mountain		Solid			X	X	X	1	
BH-33-20 (890-1100-3)	8/8/21	Mountain		Solid			X	X	X	1	
BH-33-55 (890-1100-4)	8/9/21	Mountain		Solid			X	X	X	1	
BH-33-60 (890-1100-5)	8/9/21	Mountain		Solid			X	X	X	1	
BH-33-65 (890-1100-6)	8/9/21	Mountain		Solid			X	X	X	1	
BH-31-2 (890-1100-7)	8/9/21	Mountain		Solid			X	X	X	1	
BH-31-4 (890-1100-8)	8/9/21	Mountain		Solid			X	X	X	1	
BH-31-15 (890-1100-9)	8/9/21	Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by: Clue Cuff	Date/Time	Company	Received by: Dustin Sinclair	Date/Time: 8-13-21 11:00am	Company
Relinquished by	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Page 693 of 713
Received by OCD: 2/28/2022 3:03:33 PM
Page 141 of 145
8/18/2021 (Rev. 1)
Released to Imaging: 5/2/2022 3:32:26 PM

Released to Imaging: 5/2/2022 3:32:26 PM
Received by OCD: 2/28/2022 3:03:33 PM

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Simmons Debbie	Carrier Tracking No(s)	COC No: 890-349 2
Client Contact: Shipping/Receiving	Phone	E-Mail: debbie simmons@eurofinset.com	State of Origin: New Mexico	Page: Page 2 of 10
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-1100-1
Address: 1211 W Florida Ave	Due Date Requested: 8/18/2021			
City: Midland	TAT Requested (days):			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Flamenco #1	Project #: 88000221			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH NM	8021B/5035FP_Calc BTEX (bulk jar/FP prep)	300_ORGFM_28D/DI_LEACH Chloride	Total Number of containers	Special Instructions/Note.
			Preservation Code:								
BH-31-15 (890-1100-10)	8/9/21	Mountain		Solid			X	X	X	1	
BH-31-30 (890-1100-11)	8/9/21	Mountain		Solid			X	X	X	1	
BH-30-2 (890-1100-12)	8/9/21	Mountain		Solid			X	X	X	1	
BH-30-4 (890-1100-13)	8/9/21	Mountain		Solid			X	X	X	1	
BH-30-8 (890-1100-14)	8/9/21	Mountain		Solid			X	X	X	1	
BH-30-25 (890-1100-15)	8/9/21	Mountain		Solid			X	X	X	1	
BH-30-30 (890-1100-16)	8/9/21	Mountain		Solid			X	X	X	1	
BH-26-2 (890-1100-17)	8/10/21	Mountain		Solid			X	X	X	1	
BH-26-4 (890-1100-18)	8/10/21	Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II III IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Page 695 of 713

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Simmons, Debbie	Carrier Tracking No(s)	COC No: 890-349 3
Client Contact: Shipping/Receiving	Phone	E-Mail: debbie.simmons@eurofinset.com	State of Origin: New Mexico	Page: Page 3 of 10
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-1100-1
Address: 1211 W Florida Ave	Due Date Requested: 8/18/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: Flamenco #1	Project #: 88000221			
Site	SSOW#:			

Analysis Requested

Preservation Codes.

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH - NM	8021B/5035FP_Calc BTEX (bulk jar/FP prep)	300_ORGFM_28D/DI_LEACH Chloride	Total Number of containers	Special Instructions/Note
			Preservation Code:								
BH-26-15 (890-1100-19)	8/10/21	Mountain		Solid			X	X	X	1	
BH-26-25 (890-1100-20)	8/10/21	Mountain		Solid			X	X	X	1	
BH-26-30 (890-1100-21)	8/10/21	Mountain		Solid			X	X	X	1	
BH-25-2 (890-1100-22)	8/10/21	Mountain		Solid			X	X	X	1	
BH-25-4 (890-1100-23)	8/10/21	Mountain		Solid			X	X	X	1	
BH-25-15 (890-1100-24)	8/10/21	Mountain		Solid			X	X	X	1	
BH-25-30 (890-1100-25)	8/10/21	Mountain		Solid			X	X	X	1	
BH-25-40 (890-1100-26)	8/10/21	Mountain		Solid			X	X	X	1	
BH-25-45 (890-1100-27)	8/10/21	Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II III, IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

8/18/2021 (Rev. 1)

Page 143 of 145

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1100-1
SDG Number: 11220747

Login Number: 1100
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-1100-1
SDG Number: 11220747

Login Number: 1100
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 08/13/21 11:13 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 19, 2021

BECKY HASKELL

GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE, NM 87110

RE: FLAMENCO #1

Enclosed are the results of analyses for samples received by the laboratory on 08/19/21 8:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
BECKY HASKELL
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110
Fax To:

Received:	08/19/2021	Sampling Date:	08/18/2021
Reported:	08/19/2021	Sampling Type:	Soil
Project Name:	FLAMENCO #1	Sampling Condition:	Cool & Intact
Project Number:	11220747	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SB - 43-50' (H212206-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953	
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27	
Total BTEX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2000**	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane *97.4 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *101 %* *38.9-142*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
BECKY HASKELL
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110
Fax To:

Received:	08/19/2021	Sampling Date:	08/18/2021
Reported:	08/19/2021	Sampling Type:	Soil
Project Name:	FLAMENCO #1	Sampling Condition:	Cool & Intact
Project Number:	11220747	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SB - 43-55' (H212206-02)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953	
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27	
Total BTEX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane *94.5 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *97.3 %* *38.9-142*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
BECKY HASKELL
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110
Fax To:

Received:	08/19/2021	Sampling Date:	08/18/2021
Reported:	08/19/2021	Sampling Type:	Soil
Project Name:	FLAMENCO #1	Sampling Condition:	Cool & Intact
Project Number:	11220747	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SB - 12-55' (H212206-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953	
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27	
Total BTEX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane *91.0 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *94.1 %* *38.9-142*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
BECKY HASKELL
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110
Fax To:

Received:	08/19/2021	Sampling Date:	08/18/2021
Reported:	08/19/2021	Sampling Type:	Soil
Project Name:	FLAMENCO #1	Sampling Condition:	Cool & Intact
Project Number:	11220747	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SB - 12-60' (H212206-04)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953	
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27	
Total BTEX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane *106 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *108 %* *38.9-142*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
BECKY HASKELL
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110
Fax To:

Received:	08/19/2021	Sampling Date:	08/17/2021
Reported:	08/19/2021	Sampling Type:	Soil
Project Name:	FLAMENCO #1	Sampling Condition:	Cool & Intact
Project Number:	11220747	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SB - 36-75' (H212206-05)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953	
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27	
Total BTEX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane *92.8 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *94.0 %* *38.9-142*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
BECKY HASKELL
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110
Fax To:

Received:	08/19/2021	Sampling Date:	08/17/2021
Reported:	08/19/2021	Sampling Type:	Soil
Project Name:	FLAMENCO #1	Sampling Condition:	Cool & Intact
Project Number:	11220747	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SB - 36-80' (H212206-06)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953	
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27	
Total BTEX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane *94.1 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *95.9 %* *38.9-142*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
BECKY HASKELL
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110
Fax To:

Received:	08/19/2021	Sampling Date:	08/17/2021
Reported:	08/19/2021	Sampling Type:	Soil
Project Name:	FLAMENCO #1	Sampling Condition:	Cool & Intact
Project Number:	11220747	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SB - 35-55' (H212206-07)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953	
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27	
Total BTEX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2320**	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane *81.9 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *83.9 %* *38.9-142*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
BECKY HASKELL
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110
Fax To:

Received:	08/19/2021	Sampling Date:	08/17/2021
Reported:	08/19/2021	Sampling Type:	Soil
Project Name:	FLAMENCO #1	Sampling Condition:	Cool & Intact
Project Number:	11220747	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SB - 35-75' (H212206-08)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953	
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27	
Total BTEX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane *86.3 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *87.6 %* *38.9-142*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
BECKY HASKELL
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110
Fax To:

Received:	08/19/2021	Sampling Date:	08/18/2021
Reported:	08/19/2021	Sampling Type:	Soil
Project Name:	FLAMENCO #1	Sampling Condition:	Cool & Intact
Project Number:	11220747	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SB - 35-80' (H212206-09)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953	
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27	
Total BTEX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane *70.3 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *71.4 %* *38.9-142*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
BECKY HASKELL
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110
Fax To:

Received:	08/19/2021	Sampling Date:	08/18/2021
Reported:	08/19/2021	Sampling Type:	Soil
Project Name:	FLAMENCO #1	Sampling Condition:	Cool & Intact
Project Number:	11220747	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SB - 18-65' (H212206-10)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953	
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27	
Total BTEX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/19/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	184	92.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	208	104	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane *87.9 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *92.5 %* *38.9-142*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
BECKY HASKELL
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110
Fax To:

Received:	08/19/2021	Sampling Date:	08/18/2021
Reported:	08/19/2021	Sampling Type:	Soil
Project Name:	FLAMENCO #1	Sampling Condition:	Cool & Intact
Project Number:	11220747	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SB - 18-70' (H212206-11)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2021	ND	2.03	102	2.00	0.0953	
Toluene*	<0.050	0.050	08/19/2021	ND	2.10	105	2.00	0.0543	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.04	102	2.00	0.729	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.08	101	6.00	1.27	
Total BTEX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	08/19/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	184	92.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	208	104	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane *99.6 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *104 %* *38.9-142*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Page 711 of 713

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Pg. 1/2

TP 8/19/21

Company Name:	GHD
Project Manager:	Becky Haskell
Address:	Midland
City:	State: TX Zip:
Phone #:	432 250 7917 Fax #: Becky.Haskell@ghd.com
Project #:	11220741 Project Owner:
Project Name:	Flamenco #1
Project Location:	
Sampler Name:	

BILL TO

P.O. #:	
Company:	
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

Chlorides 300.0 4500
BTEX 8021
TPH 8015 (MRO, DRO, GRO)

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME
H212306														
1	SB-43-50'	G	1			X							8-18-21	1240
2	SB-43-55'												8-18-21	1300
3	SB-12-55'												8-18-21	1420
4	SB-12-60'												8-18-21	1430
5	SB-36-75'												8-17-21	1355
6	SB-36-80'												8-17-21	1355
7	SB-35-55'												8-17-21	1515
8	SB-35-75'												8-17-21	1710
9	SB-35-80'												8-18-21	1010

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 8-19-21	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 0820		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS: SAME DAY
	Time:		

Delivered By: (Circle One) Sampler - UPS - Bus - Other:

Observed Temp. °C 5.9
Corrected Temp. °C

Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No

CHECKED BY: (Initials) TP

Turnaround Time: Standard ☐ Rush ☑

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No

Observed Temp. °C
Corrected Temp. °C

Thermometer ID #113
Correction Factor None

FORM-006 R 3.1 08/04/20

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

Page 712 of 713

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Pg. 2/2

Company Name:		**BILL TO**	
Project Manager:		P.O. #:	
Address:		Company:	
City:	State: Zip:	Attn:	
Phone #:	Fax #:	Address:	
Project #:	Project Owner:	City:	
Project Name:		State: Zip:	
Project Location:		Phone #:	
Sampler Name:		Fax #:	

TP 8/19/21

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride 300.0 4500	BTEX 8021	TPH 8015 (GRO, DRO, ORO)											
H212206																												
10	SB-18-65'	G	1			X							8-18-21	1105	X	X	X											
11	SB-18-70'	G	1			X							8-18-21	1125	X	X	X											

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 8.19.21	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 0820		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS: Send Data
	Time:		
Delivered By: (Circle One)	Observed Temp. °C 5.9	Sample Condition Cool Intact	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C	☑ Yes ☑ Yes ☐ No ☐ No	T.O.

Turnaround Time: Standard ☐ Rush ☑ Bacteria (only) Sample Condition Cool Intact Observed Temp. °C ☐ Yes ☐ Yes ☐ No ☐ No Corrected Temp. °C

Thermometer ID #113
Correction Factor None

FORM-006 R 3.1 08/04/20

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 2/28/2022 3:03:33 PM

Released to Imaging: 5/2/2022 3:32:26 PM

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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 84898

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 84898
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Groundwater Closure Report Approved. Remediation Plan Approved. Incident # nOY1724932244 will be closed when Closure Report has been received and Approved.	5/2/2022