



October 30, 2017

Reference No. 088210-37

Mr. Zane Kurtz
Sr. Safety and Environmental Representative
5509 Champions Dr.
Midland, TX 79706
VIA E-Mail: zane_kurtz@eogresources.com

Dear Mr. Kurtz:

**Re: Assessment Summary Report
Perdomo BMP State #1H (API #30-015-36499)
2RP-3226
EOG Resources, Inc.
Site Location: Unit L, Sec. 24, T 24-S, R 27-E
(Lat 32.20029°, Long -104.15024°)
Eddy County, New Mexico**

GHD Services, Inc. (GHD) is pleased to present this report for the above referenced site. Assessment activities were performed at the Perdomo BMP State #1H (hereafter referred to as the "Site"), from June 8 through September 14, 2017 by GHD. The Site is located within Unit L, Section 24, Township 24 South, Range 27 East, in Eddy County, New Mexico (Figure 1). The Site is owned by the New Mexico State Land Office (NMSLO).

The Site is an active well site located approximately 5 miles west, southwest of Malaga, New Mexico. According to EOG personnel, a release of approximately 42 barrels (bbls) of crude oil occurred when a production tank overflowed. Approximately 40 bbls of crude oil was recovered utilizing vacuum trucks. The release was discovered on August 19, 2015. A C-141 Form was submitted to the New Mexico Oil Conservation Division (NMOCD) and the NMSLO on August 28, 2015 and remediation permit (RP) number 2RP-3226 was assigned.

Initial soil sampling of the release area was performed on August 24, 2015 with additional sampling performed on September 15, 2015 by Yates Petroleum Corporation (Yates). The release area (outlined in green on Figure 2) was divided into six sections and soil samples were collected from each section at depths ranging from 1 to 7 feet below ground surface (ft. bgs). 28 soil samples were collected during the excavation activities and submitted to Hall Environmental Analysis Laboratory (HEAL) located in Albuquerque, NM. Samples were submitted for total petroleum hydrocarbons (TPH, gasoline range organics (GRO) and diesel range organics (DRO)) by EPA Method 8015 and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8260B.

BTEX concentrations ranged from below the laboratory reporting limits (LRLs) to 740 milligrams per kilogram (mg/kg) at depths ranging from one to 6 ft. bgs. Total TPH concentrations ranged from below the LRLs to 44,200 mg/kg from depths ranging from 1 to 7 ft. bgs. Soils containing BTEX and TPH



concentrations exceeding the NMOCD Recommended Remedial Action Levels (RRALs) were excavated and stockpiled on plastic near the southwest corner of the pad at the Site. The excavation was approximately 37 ft. by 40 ft. by 6 feet deep (area depicted in red on Figure 2).

The stockpiled soils were treated by Yates with Micro-Blaze initially on March 16, 2016 and again on September 14, 2016. Soil samples were collected from the stockpile at various times with the last sampling occurring on January 19, 2017. Six samples were collected at that time and submitted to HEAL for TPH diesel range and gasoline range organics analysis. Total TPH concentrations ranged from 1,600 to 4,811 mg/kg that exceeds the RRAL.

1. Recommended Remediation Action Limits

There are relatively few groundwater wells in the area of the Site with which to obtain a depth to groundwater. Based on information available from the New Mexico Office of the State Engineer New Mexico Water Rights Reporting System website, the closest well with a recorded depth to water measurement is approximately 5,700 feet from the site. The depth to groundwater measured in this well was 40 ft. bgs.

Based on information available from the United States Geological Survey (USGS) website, the closest USGS gauging site, approximately 2.0 miles south-southwest of the site, indicates groundwater at a depth of approximately 27 ft. bgs in 1988. The well information is included in Appendix A.

There do not appear to be any well head protection areas and no surface water bodies within 200 to 1000 ft. of the Site. Therefore, the preliminary total ranking score for the Site is 20 (see table below).

Based on this score, the applicable NMOCD Site-specific Recommended Remediation Action Limits (RRALs) are 10 mg/kg benzene, 50 mg/kg for total BTEX, 100 mg/kg for total TPH, and 600 mg/kg for chlorides.

In an August 28, 2017 telephone conversation between Bernard Bockisch of GHD and Jim Griswold, NMOCD Environmental Bureau Chief, GHD was informed that the NMOCD is accepting chloride concentrations of 600 mg/kg for assessment clean up levels.

New Mexico Oil Conservation Division Site Assessment	
Ranking Criteria	Score
Depth to Ground Water (<50 ft. bgs)	20
Wellhead Protection Area (> 1000 ft. from water source, > 200 ft. from domestic source)	0
Distance to Surface Body Water (200-1000 ft.)	0
Ranking Criteria Total Score	20*
*Because the ranking criteria total score is 20, NMOCD established RRALs are 10 mg/kg for benzene, 50 mg/kg for total BTEX, 100 mg/kg for TPH ¹ , and 600 mg/kg for chlorides.	



1. NMOCD Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993

2. Assessment Activities

Historically Stockpiled Soil

Historically stockpiled soil that were located on the southwest portion of the pad were sampled on August 31, 2017. Soil sampling included the collection of three composite samples each comprised of soil collected from four separate points. The samples were collected from 6 to 20 inches bgs and submitted to HEAL for BTEX analysis by EPA Method 8021B, total TPH by EPA Method 8015, and chloride analysis by EPA Method 300.0. BTEX was not detected in any of the samples, total TPH ranged from 1,690 to 3,407.7 mg/kg, and chloride ranged from 110 to 190 mg/kg. The historically stockpiled soils were subsequently transported by SDR Enterprises, LLC (SDS) of Hobbs, New Mexico to the Lea Land, LLC landfill. NMOCD Form C-138 and the waste manifests are included in Appendix C.

Subsurface Assessment Activities

From June through August, 2017, numerous assessment events were performed to assess the horizontal and vertical extent of petroleum hydrocarbon and chloride concentrations. The results of these assessments are detailed on Table 1 and Figures 2 and 3. Test pits with the same identification number and their associated analytical results can be differentiated by the sample dates recorded on Figures 2 and 3 and in Table 1. The assessments were performed on four areas within the site:

- North of the tank battery
- East of the tank battery, where a meter run is located.
- A historic excavation area located adjacent to the pad on the east.
- Adjacent to the pad on the southeast corner of the site.

A total of approximately 171 tons of impacted soil were excavated during the assessment and transported to Lea Land, LLC landfill disposal. NMOCD Form C-138 and the waste manifests are included in Appendix C.

3. Results

North of Tank Battery

Soil samples collected from the area north of the tank battery were sampled for the presence of BTEX by EPA Method 8021, TPH by EPA Method 8015, and chloride by EPA Method 300. The results of the samples collected in this area were either below the laboratory reporting limit (LRL), or the RRALs (see Figure 2).



East of Tank Battery

Soil samples collected in the vicinity of the meter run (east of the tank battery) were below the RRALs for chloride and total BTEX. Concentrations of TPH exceeded RRALs at depths of 2 and 4 ft. bgs (see Figure 2). However, the presence of the meter run in this area prevented the removal of these soils.

Historic Excavation Area

The historic excavation located adjacent to the east side of the pad was excavated by Yates during the initial assessment work at the site. This location was sampled to assess the horizontal and vertical presence of chloride and petroleum hydrocarbon concentrations. The size of this excavation was originally approximately 60 feet by 60 feet by 6 feet deep. A test pit was advanced in the bottom of the excavation to a depth of approximately 23 feet bgs, the extent that the track hoe could reach. The results of this test pit indicated the presence of TPH at a concentration of 5080 ppm. As a result, a drill rig was brought to the site to further assess the vertical extent of concentrations at this location. Prior to drilling, this area was backfilled with clean soil to provide a stable area for the drill rig to be placed.

On September 14, 2017, Enviro-Drill, Inc. of Albuquerque, New Mexico advanced a soil boring to a depth of 35 ft. bgs at the Site under the direction of GHD. The soil boring, MW-1, was drilled in the center of the original excavation near TP-1 (Figure 2). Soil samples were collected from depths of 25, 30, and 35 ft. bgs and submitted to HEAL for laboratory analysis. The samples were analyzed for BTEX by EPA Method 8021B, total TPH by EPA Method 8015, and chloride analysis by EPA Method 300.0.

All of the BTEX and total TPH results were below the LRLs and chloride concentrations ranged from 130 to 150 mg/L. Groundwater was not encountered in the soil boring. The soil boring was converted to a soil vapor extraction well in the event that future remedial activities are warranted.

Concentrations of chloride and BTEX in this area were below the RRALs. However, the presence of TPH exceeded the RRALs in two locations. These are:

- TP-1 at a depth of 23 ft. bgs (as previously mentioned above). The TPH concentrations observed in soil samples collected at 25, 30, and 30 ft. bgs were below the LRL.
- TP-18 at a depth of 4 ft. bgs. This area was excavated to a depth of 6 ft. bgs and the TPH concentrations were removed.

Southeast Corner of the Site

Concentrations of TPH were observed at various depths ranging from four to 15 feet below ground surface. Impacted soil in this area was excavated and confirmation samples were collected from the bottom and sidewalls of the excavation. Concentrations of chloride and BTEX in this area were below the RRALs. However, the presence of TPH exceeded the RRALs in two locations (see Figures 2 and 3 and Table 1). These are:



- TP-1 at a depth of 15 ft. bgs. Concentrations in this sample consisted of 100 mg/kg of DRO and 66 mg/kg of MRO for a TPH concentration of 166 mg/kg.
- TP-7 at a depth of 20 ft. bgs. Concentrations in this sample consisted of 70 mg/kg of DRO and 50 mg/kg of MRO for a TPH concentration of 120 mg/kg.
- TP-42 at a depth of 20 ft. bgs. Concentrations in this sample consisted of 61 mg/kg of GRO, 190 mg/kg of DRO, and 87 mg/kg of motor oil range organics (MRO) for a total of 338 mg/kg of TPH.
- TP-45 at a depth of 20 ft. bgs. Concentrations in this sample consisted of 8.6 mg/kg of GRO, 110 mg/kg of DRO, and 51 mg/kg of MRO for a total of 169.6 mg/kg of TPH.

4. Summary and Recommendations

The horizontal and vertical extent of petroleum hydrocarbon and chloride concentrations in soil were assessed at the site. In general, the majority of the impacts were observed along the eastern side of the site pad. The majority of impacted soil was excavated from the site. Concentrations of BTEX and chloride were below the RRAL for all samples collected at the site. However, some TPH exceedances remain at the site.

Based on the assessment of the petroleum hydrocarbon and chloride concentrations, GHD provides the following recommendations:

- Concentrations of TPH remain to the east of the tank battery in the vicinity of an existing meter run. Excavation of this soil cannot be safely performed without impacting the meter run. GHD respectfully requests that remediation of the soil in this area be deferred until the meter run is abandoned.
- Concentrations of TPH exceeding the RRALs are present in the historic excavation at a depth of 23 feet bgs. However, soil below this depth do not appear to contain TPH concentrations above the LRL. GHD recommends installation of a liner in this area at a depth of four feet bgs to prevent hydrocarbons from migrating vertically.
- GHD respectfully requests a variance from the TPH RRAL concentration in the areas of test pits TP-1 (southeast corner of the release area), TP-7, TP-42, and TP-45 based on the following:
 - The TPH concentrations in these areas are only slightly above the RRAL.
 - The TPH concentrations predominately consist of DRO and MRO concentrations which are generally immobile.
 - Concentrations of samples surrounding these locations were below the LRL for TPH, indicating that these are isolated concentrations.
 - Plug and abandon the SVE well.
 - Backfilling all of the excavated areas.



Following completion of the backfilling, revegetation of the site will be performed. Disturbed areas associated with the remediation efforts will be re-seeded. If after one growing season the vegetation has not taken hold, seeding may need to be repeated until revegetation is successful, as determined by the NMSLO. The seed will be planted utilizing a drill. The proposed seed mix will consist of Bureau of Land Management mix #2 without love grass.

The site will be visited on a quarterly basis to assess the establishment of vegetative growth. Staff personnel performing the site visit will also look for the presence of noxious weeds at the site as indicated on the New Mexico Noxious Weeds List specified on the United States Department of Agriculture website. If a noxious weed is observed at the site, the New Mexico State Land Office will be contacted to determine the most effective manner to eradicate it. Once vegetative growth has been established, to the satisfaction of all Site stakeholders, GHD will petition for No Further Action status/Site closure from the NMOCD.

Should you have any questions, or require additional information regarding this submittal, please feel free to contact Bernie Bockisch or myself at (505) 884-0672 or Bernard.Bockisch@ghd.com.

Sincerely,

GHD

A handwritten signature in black ink that reads "Alan Brandon". The signature is fluid and cursive, with the first and last names clearly legible.

Alan Brandon
Senior Project Manager

BB/mc/30

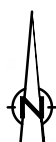
A handwritten signature in blue ink that reads "Bernard Bockisch". The signature is fluid and cursive, with the first and last names clearly legible.

Bernard Bockisch
New Mexico Operations Manager

Figures

Lat/Long: 32.20029° North, 104.15024° West

0 1000 2000ft



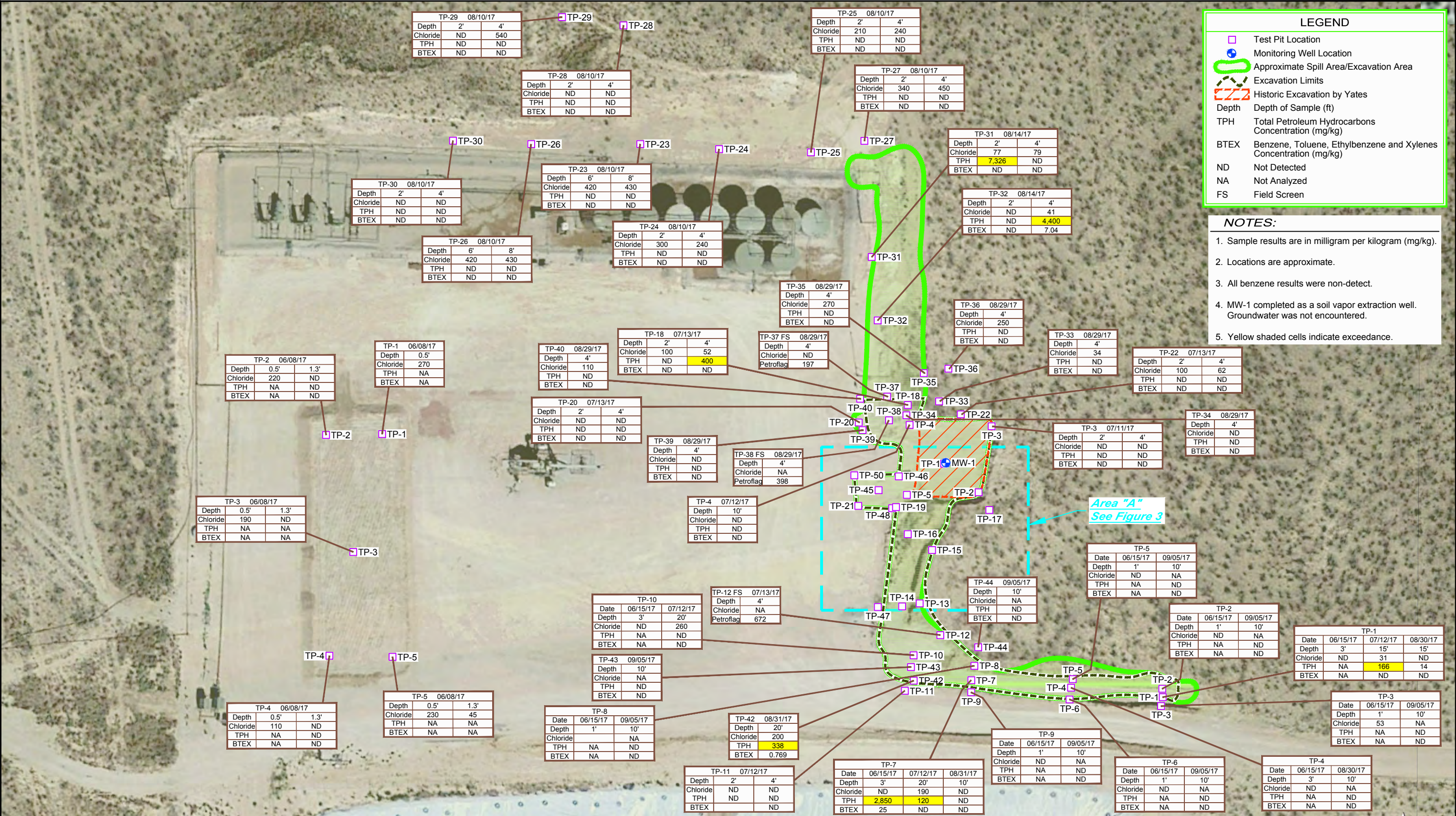
EOG RESOURCES
EDDY COUNTY, NEW MEXICO
PERDOMO BMP STATE COM No.1

| 088210-37

Jul 18, 2017

SITE LOCATION MAP

FIGURE 1



Source: Image © 2017 Google - Imagery Date: March 12, 2016 Lat/Long: 32.20029° North, 104.15024° West



Source: Image © 2017 Google - Imagery Date: March 12, 2016

Lat/Long: 32.20029° North, 104.15024° West

Tables

Table 1

Perdomo BMP State #1 - Summary of Soil Analytical Data

Sample ID	Depth (feet)	Date	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Chloride
088210-37-060817-MG-TP-1-6"	0.5	06/08/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	270
088210-37-060817-MG-TP-2-6"	0.5	06/08/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	220
088210-37-060817-MG-TP-3-6"	0.5	06/08/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	190
088210-37-060817-MG-TP-3-16"	1.3	06/08/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	<30
088210-37-060817-MG-TP-4-6"	0.5	06/08/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	110
088210-37-060817-MG-TP-5-6"	0.5	06/08/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	230
088210-37-060817-MG-TP-5-16"	1.3	06/08/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	45
088210-37-061417-MG-TP-2-16"	1.3	06/14/2017	<0.024	<0.049	<0.049	<0.098	<0.220	<4.9	<9.8	<49	<63.7	<30
088210-37-061417-MG-TP-4-16"	1.3	06/14/2017	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	<9.8	<49	<63.5	<30
088210-37-061517-MG-TP-1-3	3	06/15/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	<30
088210-37-071217-SP-TP-1-15	15	07/12/2017	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	100	66	166	31
088210-37-083017-SP-TP-1-15	15	08/30/2017	<0.024	<0.047	<0.047	<0.094	<0.212	<4.7	14	<46	14	NA
088210-37-061517-MG-TP-2-1	1	06/15/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	<30
088210-37-090517-SP-TP-2-10	10	09/05/2017	<0.023	<0.046	<0.046	<0.092	<0.207	<4.6	<9.5	<48	<62.1	NA
088210-37-061517-MG-TP-3-1	1	06/15/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	53
088210-37-090517-SP-TP-3-10	10	09/05/2017	<0.024	<0.047	<0.047	<0.094	<0.212	<4.7	<10	<50	<64.7	NA
088210-37-061517-MG-TP-4-3	3	06/15/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	<30
088210-37-083017-SP-TP-4-10	10	08/30/2017	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	<9.6	<48	<62.3	NA
088210-37-061517-MG-TP-5-1	1	06/15/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	<30
088210-37-090517-SP-TP-5-10	10	09/05/2017	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.8	<49	<63.7	NA
088210-37-061517-MG-TP-6-1	1	06/15/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	<30
088210-37-090517-SP-TP-6-10	10	09/05/2017	<0.023	<0.046	<0.046	<0.092	<0.207	<4.6	<9.4	<47	<61.0	NA
088210-37-061517-MG-TP-7-3	3	06/15/2017	<0.12	<0.24	<0.24	25	25	780	1600	470	2850	<30
088210-37-083117-SP-TP-7-10	10	08/31/2017	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.1	<45	<59.0	<30
088210-37-071217-SP-TP-7-20	20	07/12/2017	<0.023	<0.047	<0.047	<0.094	<0.211	<4.7	70	50	120	190
088210-37-061517-MG-TP-8-1	1	06/15/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	<30
088210-37-090517-SP-TP-8-10	10	09/05/2017	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.4	<47	<61.2	NA
088210-37-061517-MG-TP-9-1	1	06/15/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	<30
088210-37-090517-SP-TP-9-10	10	09/05/2017	<0.024	<0.047	<0.047	<0.094	<0.212	<4.7	<9.3	<46	<60.0	NA
088210-37-061517-MG-TP-10-3	3	06/15/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	<30
088210-37-071217-SP-TP-10-20	20	07/12/2017	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.2	<46	<59.9	260
088210-37-071117-SP-TP-1-7	7	07/11/2017	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	60	<48	60	<30
088210-37-071117-SP-TP-1-23	23	07/11/2017	<0.024	0.12	1.2	4.2	5.52	580	3100	1400	5080	130
088210-37-071117-SP-TP-3-2	2	07/11/2017	<0.023	<0.046	<0.046	<0.092	<0.207	<4.6	<9.3	<46	<59.9	<30
088210-37-071117-SP-TP-3-4	4	07/11/2017	<0.023	<0.046	<0.046	<0.092	<0.207	<4.6	<9.4	<47	<61.0	<30
088210-37-071217-SP-TP-4-10	10	07/12/2017	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	<9.9	<49	<63.6	<30
088210-37-071217-SP-TP-11-2	2	07/12/2017	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.9	<49	<63.8	<30
088210-37-071217-SP-TP-11-4	4	07/12/2017	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.8	<49	<63.6	<30
088210-37-071317-SP-TP-13-2	2	07/13/2017	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	<9.8	<49	<63.5	<30
088210-37-071317-SP-TP-13-4	4	07/13/2017	<0.023	<0.046	<0.046	<0.093	<0.208	<4.6	<10	<50	<64.6	<30
088210-37-071317-SP-TP-15-2	2	07/13/2017	<0.024	<0.048	<0.048	<0.095	<0.215	<4.8	<9.5	<47	<61.3	210
088210-37-071317-SP-TP-15-4	4	07/13/2017	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	<10	<51	<65.7	<30
088210-37-071317-SP-TP-16-2	2	07/13/2017	<0.023	<0.046	<0.046	<0.092	<0.207	<4.6	<9.6	<48	<62.2	<30
088210-37-071317-SP-TP-16-4	4	07/13/2017	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.4	<47	<61.3	<30
088210-37-071317-SP-TP-17-2	2	07/13/2017	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.5	<47	<61.3	190
088210-37-071317-SP-TP-17-4	4	07/13/2017	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	<9.7	<48	<62.4	<30
088210-37-071317-SP-TP-18-2	2	07/13/2017	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.6	<48	<62.5	100
088210-37-071317-SP-TP-18-4	4	07/13/2017	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	270	130	400	52
088210-37-071317-SP-TP-19-2	2	07/13/2017	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.8	<49	<63.7	58
088210-37-071317-SP-TP-19-4	4	07/13/2017	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.4	<47	<61.2	<30
088210-37-071317-SP-TP-20-2	2	07/13/2017	<0.024	<0.047	<0.047	<0.094	<0.212	<4.7	<9.9	<50	<64.6	<30
088210-37-071317-SP-TP-20-4	4	07/13/2017	<0.023	<0.047	<0.047	<0.094	<0.211	<4.7	<10	<50	<64.7	<30
088210-37-090617-SP-TP-21-4	4	09/06/2017	<0.024	<0.047	<0.047	<0.095	<0.213	<4.7	<9.5	<47	<61.2	NA
088210-37-071317-SP-TP-22-2	2	07/13/2017	<0.023	<0.047	<0.047	<0.094	<0.211	<4.7	<10	<50	<64.7	100
088210-37-071317-SP-TP-22-4	4	07/13/2017	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.4	<47	<61.3	62

Table 1

Perdono BMP State #1 - Summary of Soil Analytical Data

Sample ID	Depth (feet)	Date	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Chloride
088210-37-081017-SP-TP-23-6	6	08/10/2017	<0.023	<0.047	<0.047	<0.094	<0.211	<4.7	<9.2	<46	<59.9	420
088210-37-081017-SP-TP-23-8	8	08/10/2017	<0.024	<0.047	<0.047	<0.095	<0.213	<4.7	<10	<50	<64.7	430
088210-37-081017-SP-TP-24-2	2	08/10/2017	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<10	<50	<64.8	300
088210-37-081017-SP-TP-24-4	4	08/10/2017	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.6	<48	<62.6	240
088210-37-081017-SP-TP-25-2	2	08/10/2017	<0.023	<0.046	<0.046	<0.091	<0.206	<4.6	<10	<50	<64.6	210
088210-37-081017-SP-TP-25-4	4	08/10/2017	<0.024	<0.047	<0.047	<0.095	<0.213	<4.7	<9.7	<49	<63.4	240
088210-37-081017-SP-TP-26-2	2	08/10/2017	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	<9.8	<49	<63.5	320
088210-37-081017-SP-TP-26-4	4	08/10/2017	<0.023	<0.046	<0.046	<0.092	<0.207	<4.6	<9.8	<49	<63.4	400
088210-37-081017-SP-TP-27-2	2	08/10/2017	<0.024	<0.047	<0.047	<0.094	<0.212	<4.7	<9.9	<50	<64.6	340
088210-37-081017-SP-TP-27-4	4	08/10/2017	<0.024	<0.048	<0.048	<0.095	<0.215	<4.8	<9.6	<48	<62.4	450
088210-37-081017-SP-TP-28-2	2	08/10/2017	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<10	<50	<64.8	<30
088210-37-081017-SP-TP-28-4	4	08/10/2017	<0.024	<0.048	<0.048	<0.095	<0.215	<4.8	<10	<50	<64.8	<30
088210-37-081017-SP-TP-29-2	2	08/10/2017	<0.024	<0.048	<0.048	<0.095	<0.215	<4.8	<9.6	<48	<62.4	<30
088210-37-081017-SP-TP-29-4	4	08/10/2017	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<10	<50	<64.9	540
088210-37-081017-SP-TP-30-2	2	08/10/2017	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.7	<48	<62.7	<30
088210-37-081017-SP-TP-30-4	4	08/10/2017	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.7	<49	<63.6	32
088210-37-081417-SP-TP-31-2	2	08/14/2017	<0.024	<0.048	<0.048	<0.096	<0.216	26	4600	2700	7326	77
088210-37-081417-SP-TP-31-4	4	08/14/2017	<0.024	<0.047	<0.047	<0.095	<0.213	<4.7	<9.7	<48	<62.4	79
088210-37-081417-SP-TP-32-2	2	08/14/2017	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<10	<50	<64.9	<30
088210-37-081417-SP-TP-32-4	4	08/14/2017	<0.12	<0.24	0.94	6.1	7.04	400	2800	1200	4400	41
088210-37-082917-SP-TP-33-4	4	08/29/2017	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.5	<48	<62.3	34
088210-37-082917-SP-TP-34-4	4	08/29/2017	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	32	<49	32	<30
088210-37-082917-SP-TP-35-4	4	08/29/2017	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.7	<47	<61.6	270
088210-37-082917-SP-TP-36-4	4	08/29/2017	<0.024	<0.047	<0.047	<0.095	<0.213	<4.7	<9.5	<47	<61.2	250
088210-37-082917-SP-TP-39-4	4	08/29/2017	<0.023	<0.047	<0.047	<0.094	<0.211	<4.7	<9.6	<48	<62.3	<30
088210-37-082917-SP-TP-40-4	4	08/29/2017	<0.024	<0.049	<0.049	<0.098	<0.220	<4.9	<9.5	<48	<62.4	110
S-088210-37-083117-SP-Comp-1	composite	08/31/2017	<0.024	<0.048	<0.048	<0.095	<0.215	<4.8	860	830	1690	110
S-088210-37-083117-SP-Comp-2	composite	08/31/2017	<0.024	<0.047	<0.047	<0.094	<0.212	7.7	1900	1500	3407.7	130
S-088210-37-083117-SP-Comp-3	composite	08/31/2017	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	1300	1300	2600	190
088210-37-083117-SP-TP-42-20	20	08/31/2017	<0.023	0.099	<0.047	0.67	0.769	61	190	87	338	200
088210-37-090517-SP-TP-43-10	10	09/05/2017	<0.023	<0.046	<0.046	<0.092	<0.207	<4.6	<9.6	<48	<62.2	NA
088210-37-090517-SP-TP-44-10	10	09/05/2017	<0.024	<0.047	<0.047	<0.095	<0.213	<4.7	<10	<50	<64.7	NA
088210-37-090517-SP-TP-45-20	20	09/05/2017	<0.023	<0.046	<0.046	<0.093	<0.208	8.6	110	51	169.6	NA
088210-37-090517-SP-TP-46-4	4	09/05/2017	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.9	<49	<63.8	NA
088210-37-090517-SP-TP-47-4	4	09/05/2017	<0.024	<0.047	<0.047	<0.094	<0.212	<4.7	<9.7	<48	<62.4	NA
088210-37-090517-SP-TP-48-4	4	09/05/2017	<0.023	<0.046	<0.046	<0.093	<0.208	<4.6	<10	<50	<64.6	NA
088210-37-090617-SP-TP-50-4	4	09/06/2017	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	13	<49	13	NA
088210-37-091417-MG-MW-1-25	25	09/14/2017	<0.023	<0.046	<0.046	<0.091	<0.206	<4.6	<9.3	<47	<60.9	150
088210-37-091417-MG-MW-1-30	30	09/14/2017	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.7	<49	<63.5	150
088210-37-091417-MG-MW-1-35	35	09/14/2017	<0.024	<0.048	<0.048	<0.095	<0.215	<4.8	<9.4	<47	<61.2	130
NMOCD RRALs (Total Ranking Score = 20)			10		50				Total TPH: 100			600

Notes:

All sample results are in milligrams per kilogram

NA = Not Analyzed

NMOCD = New Mexico Oil Conservation Division

RRALs = Recommended Remediation Action Limits

Highlighted = Exceeds NMOCD RRAL

Appendices

Appendix A

USGS Well Information

Perdomo BMP State Can #1



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q Q Q	64	16	4	Sec	Tws	Rng	X	Y	Distance	Depth	Well	Depth	Water Column
C 01721	C	ED						1	25	24S	27E	580271	3562033*	944		170	
C 03145	C	ED		3	1	4	13	24S	27E		580749	3564579*	1771		103	40	63

Average Depth to Water: 40 feet

Minimum Depth: 40 feet

Maximum Depth: 40 feet

Record Count:2

UTM NAD83 Radius Search (in meters):

Eastling (X): 580049.3

Northling (Y): 3562951.29

Radius: 2000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/24/17 8:06 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- [Please see news on new formats](#)
- [Full News](#) 

*per demo
~ 2 miles away*

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 321000104092501

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321000104092501 25S.27E.02.21122

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code --

Latitude 32°10'00", Longitude 104°09'25" NAD27

Land-surface elevation 3,164 feet above NAVD88

This well is completed in the Castile Gypsum (312CSTL) local aquifer.

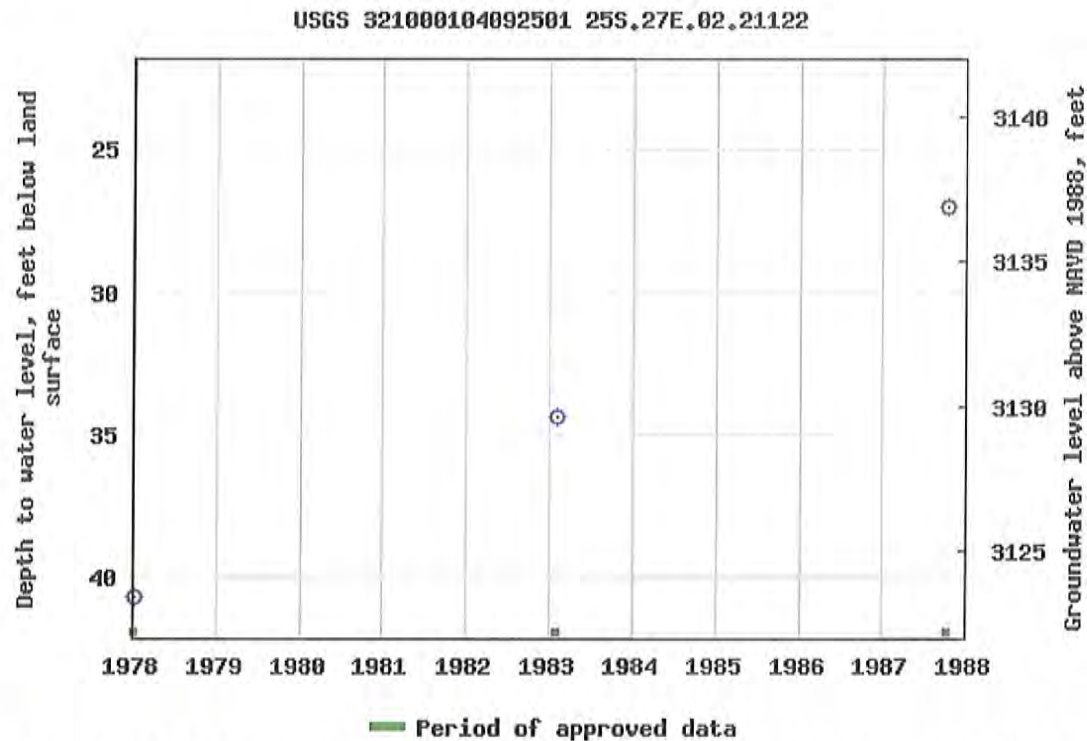
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

[Questions about sites/data?](#)

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[Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2017-06-13 10:04:11 EDT

0.55 0.5 nadww02

Appendix B

Laboratory Analytical Reports



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 23, 2017

Bernie Bockish

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Perdomo

OrderNo.: 1706711

Dear Bernie Bockish:

Hall Environmental Analysis Laboratory received 7 sample(s) on 6/13/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1706711

Date Reported: 6/23/2017

CLIENT: GHD
Project: Perdomo

Lab Order: 1706711

Lab ID: 1706711-001 **Collection Date:** 6/8/2017 1:40:00 PM

Client Sample ID: 088210-37-060817-MG-TP-1-6" **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: MRA							
Chloride	270	30		mg/Kg	20	6/21/2017 2:15:08 PM	32409

Lab ID: 1706711-002 **Collection Date:** 6/8/2017 1:45:00 PM

Client Sample ID: 088210-37-060817-MG-TP-2-6" **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: MRA							
Chloride	220	30		mg/Kg	20	6/21/2017 3:17:11 PM	32409

Lab ID: 1706711-003 **Collection Date:** 6/8/2017 2:05:00 PM

Client Sample ID: 088210-37-060817-MG-TP-3-6" **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: MRA							
Chloride	190	30		mg/Kg	20	6/21/2017 3:29:36 PM	32409

Lab ID: 1706711-004 **Collection Date:** 6/8/2017 2:15:00 PM

Client Sample ID: 088210-37-060817-MG-TP-4-6" **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: MRA							
Chloride	110	30		mg/Kg	20	6/21/2017 3:42:01 PM	32409

Lab ID: 1706711-005 **Collection Date:** 6/8/2017 2:20:00 PM

Client Sample ID: 088210-37-060817-MG-TP-5-6" **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: MRA							
Chloride	230	30		mg/Kg	20	6/21/2017 3:54:26 PM	32409

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1706711

Date Reported: 6/23/2017

CLIENT: GHD
Project: Perdomo

Lab Order: 1706711

Lab ID: 1706711-006

Collection Date: 6/8/2017 2:45:00 PM

Client Sample ID: 088210-37-060817-MG-TP-5-16"

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	45	30		mg/Kg	20	6/21/2017 4:06:50 PM	32409

Lab ID: 1706711-007

Collection Date: 6/8/2017 3:00:00 PM

Client Sample ID: 088210-37-060817-MG-TP-3-16"

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	6/21/2017 4:19:15 PM	32409

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706711

23-Jun-17

Client: GHD
Project: Perdomo

Sample ID	MB-32409		SampType:	mblik		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	32409		RunNo:	43687				
Prep Date:	6/21/2017		Analysis Date:	6/21/2017		SeqNo:	1377078		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-32409		SampType: lcs		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 32409		RunNo: 43687					
Prep Date:	6/21/2017		Analysis Date: 6/21/2017		SeqNo: 1377079		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: GHD

Work Order Number: 1706711

RcptNo: 1

Received By: Richie Eriacho 6/13/2017 9:45:00 AM

Completed By: Erin Melendrez 6/13/2017 3:46:46 PM

Reviewed By: ENM/le 06/14/17

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Client

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Not Present			

Chain-of-Custody Record

Client: GHD Services, Inc.

Mailing Address: 621 Indian School Rd Ste 200

NE Albuquerque, NM 87110

Phone #: 505 884 0672

email or Fax#: Bernard.Bockisch@ghd.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Project Manager: Bernard Bockisch

Sampler: Michael Gant

On Ice: ☒ Yes ☐ No

Sample Temperature: 17

Container Type and #

Preservative Type

HEAL No.

1706711

4oz Silica Ice

-001

-002

-003

-004

-005

-006

-007

Sample Request ID

S-088210-37-060817-MG-TP-2-4

S-088210-37-060817-MG-TP-2-4

S-088210-37-060817-MG-TP-3-6

S-088210-37-060817-MG-TP-4-6

S-088210-37-060817-MG-TP-5-6

S-088210-37-060817-MG-TP-5-6

S-088210-37-060817-MG-TP-3-6

Date

6/18 1340 S

6/18 1345 S

6/18 1405 S

6/18 1415 S

6/18 1420 S

6/18 1445 S

6/18 1500 S

Time

6/18 1340 S

6/18 1345 S

6/18 1405 S

6/18 1415 S

6/18 1420 S

6/18 1445 S

6/18 1500 S

Date: 6/12 0800

Relinquished by: Michael Gant

Date: 6/12/17 1900

Relinquished by: Michael Gant

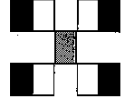
Received by: Michael Gant

Date Time 6/12/17 0800

Received by: Michael Gant

Date Time 6/13/17 0945

Remarks:



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TMB's (8021)	
BTEX + MTBE + TPH (Gas only)	
TPH 8015B (GRO / DRO / MRO)	
TPH (Method 418.1)	
EDB (Method 504.1)	
PAH's (8310 or 8270 SIMS)	
RCRA 8 Metals	
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
8081 Pesticides / 8082 PCB's	
8260B (VOA)	
8270 (Semi-VOA)	
Chloride (300)	X
Air Bubbles (Y or N)	



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 23, 2017

Bernie Bockish

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Perdomo

OrderNo.: 1706971

Dear Bernie Bockish:

Hall Environmental Analysis Laboratory received 12 sample(s) on 6/17/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1706971

Date Reported: 6/23/2017

CLIENT: GHD

Client Sample ID: 088210-37-061417-MGTP-2-16'

Project: Perdomo

Collection Date: 6/14/2017 11:05:00 AM

Lab ID: 1706971-001

Matrix: SOIL

Received Date: 6/17/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	6/19/2017 11:30:29 PM	32375
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/22/2017 1:26:59 PM	32418
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/22/2017 1:26:59 PM	32418
Surr: DNOP	90.5	70-130		%Rec	1	6/22/2017 1:26:59 PM	32418
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/22/2017 9:34:40 AM	32413
Surr: BFB	92.7	54-150		%Rec	1	6/22/2017 9:34:40 AM	32413
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/22/2017 9:34:40 AM	32413
Toluene	ND	0.049		mg/Kg	1	6/22/2017 9:34:40 AM	32413
Ethylbenzene	ND	0.049		mg/Kg	1	6/22/2017 9:34:40 AM	32413
Xylenes, Total	ND	0.098		mg/Kg	1	6/22/2017 9:34:40 AM	32413
Surr: 4-Bromofluorobenzene	118	66.6-132		%Rec	1	6/22/2017 9:34:40 AM	32413

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1706971**

Date Reported: **6/23/2017**

CLIENT: GHD

Client Sample ID: 088210-37-061417-MGTP-4-16'

Project: Perdomo

Collection Date: 6/14/2017 11:35:00 AM

Lab ID: 1706971-002

Matrix: SOIL

Received Date: 6/17/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	6/20/2017 12:07:42 AM	32375
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/22/2017 1:56:05 PM	32418
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/22/2017 1:56:05 PM	32418
Surr: DNOP	95.4	70-130		%Rec	1	6/22/2017 1:56:05 PM	32418
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/22/2017 9:58:42 AM	32413
Surr: BFB	92.3	54-150		%Rec	1	6/22/2017 9:58:42 AM	32413
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/22/2017 9:58:42 AM	32413
Toluene	ND	0.047		mg/Kg	1	6/22/2017 9:58:42 AM	32413
Ethylbenzene	ND	0.047		mg/Kg	1	6/22/2017 9:58:42 AM	32413
Xylenes, Total	ND	0.093		mg/Kg	1	6/22/2017 9:58:42 AM	32413
Surr: 4-Bromofluorobenzene	117	66.6-132		%Rec	1	6/22/2017 9:58:42 AM	32413

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1706971**

Date Reported: **6/23/2017**

CLIENT: GHD

Client Sample ID: 088210-37-061517-MGTP-1-3

Project: Perdomo

Collection Date: 6/15/2017 8:20:00 AM

Lab ID: 1706971-003

Matrix: SOIL

Received Date: 6/17/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	6/20/2017 12:20:07 AM	32375

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1706971**

Date Reported: **6/23/2017**

CLIENT: GHD

Client Sample ID: 088210-37-061517-MGTP-2-1

Project: Perdomo

Collection Date: 6/15/2017 8:45:00 AM

Lab ID: 1706971-004

Matrix: SOIL

Received Date: 6/17/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	6/20/2017 12:32:32 AM	32375

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1706971**

Date Reported: **6/23/2017**

CLIENT: GHD

Client Sample ID: 088210-37-061517-MGTP-3-1

Project: Perdomo

Collection Date: 6/15/2017 8:55:00 AM

Lab ID: 1706971-005

Matrix: SOIL

Received Date: 6/17/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	53	30		mg/Kg	20	6/20/2017 12:44:57 AM	32375

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1706971**

Date Reported: **6/23/2017**

CLIENT: GHD

Client Sample ID: 088210-37-061517-MGTP-4-3

Project: Perdomo

Collection Date: 6/15/2017 9:30:00 AM

Lab ID: 1706971-006

Matrix: SOIL

Received Date: 6/17/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	6/20/2017 12:57:22 AM	32375

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1706971**

Date Reported: **6/23/2017**

CLIENT: GHD

Client Sample ID: 088210-37-061517-MGTP-5-1

Project: Perdomo

Collection Date: 6/15/2017 9:45:00 AM

Lab ID: 1706971-007

Matrix: SOIL

Received Date: 6/17/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	6/20/2017 1:34:36 AM	32375

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1706971**

Date Reported: **6/23/2017**

CLIENT: GHD

Client Sample ID: 088210-37-061517-MGTP-6-1

Project: Perdomo

Collection Date: 6/15/2017 9:55:00 AM

Lab ID: 1706971-008

Matrix: SOIL

Received Date: 6/17/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	6/20/2017 1:47:01 AM	32375

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1706971**

Date Reported: **6/23/2017**

CLIENT: GHD

Client Sample ID: 088210-37-061517-MGTP-7-3

Project: Perdomo

Collection Date: 6/15/2017 10:15:00 AM

Lab ID: 1706971-009

Matrix: SOIL

Received Date: 6/17/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	6/20/2017 1:59:26 AM	32375
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	1600	91		mg/Kg	10	6/20/2017 11:01:36 AM	32362
Motor Oil Range Organics (MRO)	470	460		mg/Kg	10	6/20/2017 11:01:36 AM	32362
Surr: DNOP	0	70-130	S	%Rec	10	6/20/2017 11:01:36 AM	32362
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	780	24		mg/Kg	5	6/20/2017 12:50:25 PM	32355
Surr: BFB	739	54-150	S	%Rec	5	6/20/2017 12:50:25 PM	32355
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	6/20/2017 12:50:25 PM	32355
Toluene	ND	0.24		mg/Kg	5	6/20/2017 12:50:25 PM	32355
Ethylbenzene	ND	0.24		mg/Kg	5	6/20/2017 12:50:25 PM	32355
Xylenes, Total	25	0.48		mg/Kg	5	6/20/2017 12:50:25 PM	32355
Surr: 4-Bromofluorobenzene	139	66.6-132	S	%Rec	5	6/20/2017 12:50:25 PM	32355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1706971**

Date Reported: **6/23/2017**

CLIENT: GHD

Client Sample ID: 088210-37-061517-MGTP-8-1

Project: Perdomo

Collection Date: 6/15/2017 10:30:00 AM

Lab ID: 1706971-010

Matrix: SOIL

Received Date: 6/17/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	6/20/2017 2:11:50 AM	32375

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1706971**

Date Reported: **6/23/2017**

CLIENT: GHD

Client Sample ID: 088210-37-061517-MGTP-9-1

Project: Perdomo

Collection Date: 6/15/2017 10:35:00 AM

Lab ID: 1706971-011

Matrix: SOIL

Received Date: 6/17/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	6/20/2017 2:24:15 AM	32375

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1706971**

Date Reported: **6/23/2017**

CLIENT: GHD

Client Sample ID: 088210-37-061517-MGTP-10-3

Project: Perdomo

Collection Date: 6/15/2017 11:35:00 AM

Lab ID: 1706971-012

Matrix: SOIL

Received Date: 6/17/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	6/20/2017 2:36:40 AM	32375

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706971

23-Jun-17

Client: GHD
Project: Perdomo

Sample ID	MB-32375	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	32375	RunNo:	43628					
Prep Date:	6/19/2017	Analysis Date:	6/19/2017	SeqNo:	1374575	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-32375	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	32375	RunNo:	43628					
Prep Date:	6/19/2017	Analysis Date:	6/19/2017	SeqNo:	1374576	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706971

23-Jun-17

Client: GHD
Project: Perdomo

Sample ID	LCS-32362		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 32362		RunNo: 43629					
Prep Date:	6/19/2017		Analysis Date: 6/20/2017		SeqNo: 1374617		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.4	73.2	114			
Surr: DNOP	4.9		5.000		97.7	70	130			

Sample ID	MB-32362		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 32362		RunNo: 43629					
Prep Date:	6/19/2017		Analysis Date: 6/20/2017		SeqNo: 1374618		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	70	130			

Sample ID	MB-32430		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 32430		RunNo: 43709					
Prep Date:	6/22/2017		Analysis Date: 6/22/2017		SeqNo: 1376717		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.2		10.00		71.8	70	130			

Sample ID	LCS-32430		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 32430		RunNo: 43710					
Prep Date:	6/22/2017		Analysis Date: 6/22/2017		SeqNo: 1377203		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		5.000		96.3	70	130			

Sample ID	MB-32418		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 32418		RunNo: 43710					
Prep Date:	6/21/2017		Analysis Date: 6/22/2017		SeqNo: 1377405		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.5		10.00		85.4	70	130			

Sample ID	LCS-32418		SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	LCSS		Batch ID:	32418		RunNo:	43710				
Prep Date:	6/21/2017		Analysis Date:	6/22/2017		SeqNo:	1377406		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706971

23-Jun-17

Client: GHD
Project: Perdomo

Sample ID	LCS-32418		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 32418		RunNo: 43710					
Prep Date:	6/21/2017		Analysis Date: 6/22/2017		SeqNo: 1377406		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	105	73.2	114			
Surr: DNOP	4.8		5.000		95.4	70	130			

Sample ID	1706971-001AMS		SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	088210-37-061417-M		Batch ID: 32418		RunNo: 43710					
Prep Date:	6/21/2017		Analysis Date: 6/22/2017		SeqNo: 1377610		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	72	9.7	48.26	7.853	133	55.8	122			S
Surr: DNOP	4.7		4.826		97.1	70	130			

Sample ID	1706971-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	088210-37-061417-M		Batch ID:	32418		RunNo:	43710				
Prep Date:	6/21/2017		Analysis Date:	6/22/2017		SeqNo:	1377611		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	62	9.7	48.73	7.853	110	55.8	122	16.0	20		
Surr: DNOP	4.9		4.873		100	70	130	0	0		

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706971

23-Jun-17

Client: GHD
Project: Perdomo

Sample ID	MB-32371		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 32371		RunNo: 43647					
Prep Date:	6/19/2017		Analysis Date: 6/20/2017		SeqNo: 1375311		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		94.3	54	150			

Sample ID	LCS-32371		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 32371		RunNo: 43647					
Prep Date:	6/19/2017		Analysis Date: 6/20/2017		SeqNo: 1375312		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		109	54	150			

Sample ID	MB-32355		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	32355		RunNo:	43647				
Prep Date:	6/19/2017		Analysis Date:	6/20/2017		SeqNo:	1375318		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	1000		1000		101	54	150				

Sample ID	LCS-32355		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 32355		RunNo: 43647					
Prep Date:	6/19/2017		Analysis Date: 6/20/2017		SeqNo: 1375319		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.8	76.4	125			
Surr: BFB	1100		1000		113	54	150			

Sample ID	MB-32413		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 32413		RunNo: 43721					
Prep Date:	6/21/2017		Analysis Date: 6/22/2017		SeqNo: 1377556		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.3	54	150			

Sample ID	LCS-32413		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 32413		RunNo: 43721					
Prep Date:	6/21/2017		Analysis Date: 6/22/2017		SeqNo: 1377557		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	76.4	125			
Surr: BFB	1000		1000		104	54	150			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706971

23-Jun-17

Client: GHD
Project: Perdomo

Sample ID	1706971-002AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	088210-37-061417-M	Batch ID:	32413	RunNo:	43721					
Prep Date:	6/21/2017	Analysis Date:	6/22/2017	SeqNo:	1377560	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.8	23.97	0	116	77.8	128			
Surr: BFB	1100		958.8		112	54	150			

Sample ID	1706971-002AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	088210-37-061417-M	Batch ID:	32413	RunNo:	43721					
Prep Date:	6/21/2017	Analysis Date:	6/22/2017	SeqNo:	1377561	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.6	23.19	0	116	77.8	128	3.78	20	
Surr: BFB	1000		927.6		108	54	150	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706971

23-Jun-17

Client: GHD
Project: Perdomo

Sample ID	MB-32371		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	32371		RunNo:	43647			
Prep Date:	6/19/2017		Analysis Date:	6/20/2017		SeqNo:	1375343		Units: %Rec	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		122	66.6	132			

Sample ID	LCS-32371		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	32371		RunNo:	43647			
Prep Date:	6/19/2017		Analysis Date:	6/20/2017		SeqNo:	1375344		Units: %Rec	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		125	66.6	132			

Sample ID	MB-32355		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	32355		RunNo:	43647			
Prep Date:	6/19/2017		Analysis Date:	6/20/2017		SeqNo:	1375348		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.3		1.000		127	66.6	132			

Sample ID	LCS-32355		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	32355		RunNo:	43647			
Prep Date:	6/19/2017		Analysis Date:	6/20/2017		SeqNo:	1375349		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	105	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	0.050	1.000	0	108	80	120			
Xylenes, Total	3.3	0.10	3.000	0	109	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		122	66.6	132			

Sample ID	MB-32413		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	32413		RunNo:	43721			
Prep Date:	6/21/2017		Analysis Date:	6/22/2017		SeqNo:	1377583		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706971

23-Jun-17

Client: GHD
Project: Perdomo

Sample ID	MB-32413		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 32413		RunNo: 43721					
Prep Date:	6/21/2017		Analysis Date: 6/22/2017		SeqNo: 1377583		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		119	66.6	132			

Sample ID	LCS-32413		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 32413		RunNo: 43721					
Prep Date:	6/21/2017		Analysis Date: 6/22/2017		SeqNo: 1377584		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	0.050	1.000	0	109	80	120			
Xylenes, Total	3.3	0.10	3.000	0	110	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		119	66.6	132			

Sample ID	1706971-001AMS		SampType: MS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	088210-37-061417-M		Batch ID: 32413		RunNo: 43721					
Prep Date:	6/21/2017		Analysis Date: 6/22/2017		SeqNo: 1377586		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.024	0.9560	0	122	61.5	138			
Toluene	1.2	0.048	0.9560	0	126	71.4	127			
Ethylbenzene	1.2	0.048	0.9560	0	129	70.9	132			
Xylenes, Total	3.7	0.096	2.868	0	129	76.2	123			S
Surr: 4-Bromofluorobenzene	1.1		0.9560		118	66.6	132			

Sample ID	1706971-001AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	088210-37-061417-M		Batch ID:	32413		RunNo:	43721				
Prep Date:	6/21/2017		Analysis Date:	6/22/2017		SeqNo:	1377587		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.0	0.024	0.9690	0	107	61.5	138	11.8	20		
Toluene	1.1	0.048	0.9690	0	111	71.4	127	11.0	20		
Ethylbenzene	1.1	0.048	0.9690	0	117	70.9	132	8.33	20		
Xylenes, Total	3.5	0.097	2.907	0	119	76.2	123	6.38	20		
Surr: 4-Bromofluorobenzene	1.2		0.9690		125	66.6	132	0	0		

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: GHD

Work Order Number: 1706971

RcptNo: 1

Received By: John Caldwell 6/17/2017 9:00:00 AM

Completed By: Anne Thorne 6/19/2017 7:57:16 AM

Reviewed By: *SPR* 06/19/17

John Caldwell

Anne Thorne

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? FedEx

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐
- # of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.9	Good	Yes			

Chain-of-Custody Record

Client: GHD Services, Inc.
 Mailing Address: 6121 Indian School Rd Ste 200
NE Albuquerque, NM 87110
 Phone #: 505 884 0672
 email or Fax#: Bernard.Beckisch@ghd.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
 Accreditation
☐ NELAP ☐ Other
☐ EDD (Type)

Date	Time	Matrix	Sample Request ID
6/14	1105	S	S-088210-37-061417-M6-TP-4-1
6/14	1135	S	S-088210-37-061417-M6-TP-4-1
6/15	0820	S	S-088210-37-061517-M6-TP-1-3
6/15	0845	S	S-088210-37-061517-M6-TP-2-1
6/15	0855	S	S-088210-37-061517-M6-TP-3-1
6/15	0930	S	S-088210-37-061517-M6-TP-4-3
6/15	0945	S	S-088210-37-061517-M6-TP-5-1
6/15	0955	S	S-088210-37-061517-M6-TP-6-1
6/15	1015	S	S-088210-37-061517-M6-TP-7-3
6/15	1030	S	S-088210-37-061517-M6-TP-8-1
6/15	1035	S	S-088210-37-061517-M6-TP-9-1
6/15	1135	S	S-088210-37-061517-M6-TP-10-3

Date: 6/15
 Relinquished by: M. Beckisch
 Date: 6/15
 Relinquished by:

Turn-Around Time:
☐ Standard ☒ Rush 24 hr.
 Project Name: Perdomo

Project #:
088210-37

Project Manager:
Bernard Beckisch

Sampler: Michael Gant
 On Ice: ☒ Yes ☐ No
 Sample Temperature: 5.9 C

Container Type and #	Preservative Type	HEAL No.
<u>4 to 5 L Ice</u>		<u>1706971</u>
		<u>-001</u>
		<u>-002</u>
		<u>-003</u>
		<u>-004</u>
		<u>-005</u>
		<u>-006</u>
		<u>-007</u>
		<u>-008</u>
		<u>-009</u>
		<u>-010</u>
		<u>-011</u>
		<u>-012</u>

Received by: Michael Gant Date: 6/17/17 Time: 0900
 Received by:



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TMBs (8021)	
BTEX + MTBE + TPH (Gas only)	
TPH 8015B (GRO / DRO / MRO)	
TPH (Method 418.1)	
EDB (Method 504.1)	
PAH's (8310 or 8270 SIMS)	
RCRA 8 Metals	
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
8081 Pesticides / 8082 PCB's	
8260B (VOA)	
8270 (Semi-VOA)	
Chloride (800)	X
BTEX (8002)	
Air Bubbles (Y or N)	

Remarks: 871-1 > add BTEX/PAHs per plan of 6/21 push



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 28, 2017

Alan Brandon

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Perdome BMP State 1

OrderNo.: 1707766

Dear Alan Brandon:

Hall Environmental Analysis Laboratory received 10 sample(s) on 7/14/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1707766

Date Reported: 7/28/2017

CLIENT: GHD

Client Sample ID: 088210-37-071117-SPTP1-7'

Project: Perdome BMP State 1

Collection Date: 7/11/2017 5:20:00 PM

Lab ID: 1707766-001

Matrix: SOIL

Received Date: 7/14/2017 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	7/25/2017 2:04:22 AM	32979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	60	9.5		mg/Kg	1	7/20/2017 8:31:04 AM	32859
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/20/2017 8:31:04 AM	32859
Surr: DNOP	103	70-130		%Rec	1	7/20/2017 8:31:04 AM	32859
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/19/2017 8:24:49 PM	32840
Surr: BFB	88.9	54-150		%Rec	1	7/19/2017 8:24:49 PM	32840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/19/2017 8:24:49 PM	32840
Toluene	ND	0.048		mg/Kg	1	7/19/2017 8:24:49 PM	32840
Ethylbenzene	ND	0.048		mg/Kg	1	7/19/2017 8:24:49 PM	32840
Xylenes, Total	ND	0.096		mg/Kg	1	7/19/2017 8:24:49 PM	32840
Surr: 4-Bromofluorobenzene	101	66.6-132		%Rec	1	7/19/2017 8:24:49 PM	32840

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1707766

Date Reported: 7/28/2017

CLIENT: GHD

Client Sample ID: 088210-37-071117-SPTP1-23'

Project: Perdome BMP State 1

Collection Date: 7/11/2017 5:25:00 PM

Lab ID: 1707766-002

Matrix: SOIL

Received Date: 7/14/2017 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	130	30		mg/Kg	20	7/25/2017 2:16:46 AM	32979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	3100	95		mg/Kg	10	7/20/2017 12:33:58 PM	32859
Motor Oil Range Organics (MRO)	1400	470		mg/Kg	10	7/20/2017 12:33:58 PM	32859
Surr: DNOP	0	70-130	S	%Rec	10	7/20/2017 12:33:58 PM	32859
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	580	97		mg/Kg	20	7/20/2017 1:16:29 PM	32840
Surr: BFB	204	54-150	S	%Rec	20	7/20/2017 1:16:29 PM	32840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/19/2017 8:48:44 PM	32840
Toluene	0.12	0.049		mg/Kg	1	7/19/2017 8:48:44 PM	32840
Ethylbenzene	1.2	0.049		mg/Kg	1	7/19/2017 8:48:44 PM	32840
Xylenes, Total	4.2	0.097		mg/Kg	1	7/19/2017 8:48:44 PM	32840
Surr: 4-Bromofluorobenzene	412	66.6-132	S	%Rec	1	7/19/2017 8:48:44 PM	32840

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707766**

Date Reported: **7/28/2017**

CLIENT: GHD

Client Sample ID: 088210-37-071117-SPTP3-2'

Project: Perdome BMP State 1

Collection Date: 7/11/2017 5:30:00 PM

Lab ID: 1707766-003

Matrix: SOIL

Received Date: 7/14/2017 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	7/25/2017 2:29:10 AM	32979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/20/2017 12:56:01 PM	32859
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/20/2017 12:56:01 PM	32859
Surr: DNOP	86.7	70-130		%Rec	1	7/20/2017 12:56:01 PM	32859
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/19/2017 9:12:41 PM	32840
Surr: BFB	96.1	54-150		%Rec	1	7/19/2017 9:12:41 PM	32840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/19/2017 9:12:41 PM	32840
Toluene	ND	0.046		mg/Kg	1	7/19/2017 9:12:41 PM	32840
Ethylbenzene	ND	0.046		mg/Kg	1	7/19/2017 9:12:41 PM	32840
Xylenes, Total	ND	0.092		mg/Kg	1	7/19/2017 9:12:41 PM	32840
Surr: 4-Bromofluorobenzene	101	66.6-132		%Rec	1	7/19/2017 9:12:41 PM	32840

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707766**Date Reported: **7/28/2017****CLIENT:** GHD**Client Sample ID:** 088210-37-071117-SPTP3-4'**Project:** Perdome BMP State 1**Collection Date:** 7/11/2017 5:35:00 PM**Lab ID:** 1707766-004**Matrix:** SOIL**Received Date:** 7/14/2017 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	7/25/2017 3:06:25 AM	32979
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/20/2017 1:18:00 PM	32859
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/20/2017 1:18:00 PM	32859
Surr: DNOP	81.2	70-130		%Rec	1	7/20/2017 1:18:00 PM	32859
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/19/2017 9:36:39 PM	32840
Surr: BFB	87.4	54-150		%Rec	1	7/19/2017 9:36:39 PM	32840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/19/2017 9:36:39 PM	32840
Toluene	ND	0.046		mg/Kg	1	7/19/2017 9:36:39 PM	32840
Ethylbenzene	ND	0.046		mg/Kg	1	7/19/2017 9:36:39 PM	32840
Xylenes, Total	ND	0.092		mg/Kg	1	7/19/2017 9:36:39 PM	32840
Surr: 4-Bromofluorobenzene	102	66.6-132		%Rec	1	7/19/2017 9:36:39 PM	32840

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707766**

Date Reported: **7/28/2017**

CLIENT: GHD

Client Sample ID: 088210-37-071217-SPTP4-10'

Project: Perdome BMP State 1

Collection Date: 7/12/2017 10:15:00 AM

Lab ID: 1707766-005

Matrix: SOIL

Received Date: 7/14/2017 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	7/25/2017 11:44:35 AM	32992
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/20/2017 1:40:07 PM	32859
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/20/2017 1:40:07 PM	32859
Surr: DNOP	90.1	70-130		%Rec	1	7/20/2017 1:40:07 PM	32859
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/19/2017 10:00:31 PM	32840
Surr: BFB	85.3	54-150		%Rec	1	7/19/2017 10:00:31 PM	32840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/19/2017 10:00:31 PM	32840
Toluene	ND	0.047		mg/Kg	1	7/19/2017 10:00:31 PM	32840
Ethylbenzene	ND	0.047		mg/Kg	1	7/19/2017 10:00:31 PM	32840
Xylenes, Total	ND	0.093		mg/Kg	1	7/19/2017 10:00:31 PM	32840
Surr: 4-Bromofluorobenzene	100	66.6-132		%Rec	1	7/19/2017 10:00:31 PM	32840

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707766**

Date Reported: **7/28/2017**

CLIENT: GHD

Client Sample ID: 088210-37-071217-SPTP7-20'

Project: Perdome BMP State 1

Collection Date: 7/12/2017 10:38:00 AM

Lab ID: 1707766-006

Matrix: SOIL

Received Date: 7/14/2017 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	190	30		mg/Kg	20	7/25/2017 12:21:49 PM	32992
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	70	9.2		mg/Kg	1	7/20/2017 2:02:28 PM	32859
Motor Oil Range Organics (MRO)	50	46		mg/Kg	1	7/20/2017 2:02:28 PM	32859
Surr: DNOP	96.7	70-130		%Rec	1	7/20/2017 2:02:28 PM	32859
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/19/2017 10:24:26 PM	32840
Surr: BFB	98.3	54-150		%Rec	1	7/19/2017 10:24:26 PM	32840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/19/2017 10:24:26 PM	32840
Toluene	ND	0.047		mg/Kg	1	7/19/2017 10:24:26 PM	32840
Ethylbenzene	ND	0.047		mg/Kg	1	7/19/2017 10:24:26 PM	32840
Xylenes, Total	ND	0.094		mg/Kg	1	7/19/2017 10:24:26 PM	32840
Surr: 4-Bromofluorobenzene	101	66.6-132		%Rec	1	7/19/2017 10:24:26 PM	32840

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1707766

Date Reported: 7/28/2017

CLIENT: GHD

Client Sample ID: 088210-37-071217-SPTP1-15'

Project: Perdome BMP State 1

Collection Date: 7/12/2017 11:30:00 AM

Lab ID: 1707766-007

Matrix: SOIL

Received Date: 7/14/2017 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	31	30		mg/Kg	20	7/25/2017 12:34:14 PM	32992
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	100	9.4		mg/Kg	1	7/20/2017 1:50:48 AM	32859
Motor Oil Range Organics (MRO)	66	47		mg/Kg	1	7/20/2017 1:50:48 AM	32859
Surr: DNOP	70.9	70-130		%Rec	1	7/20/2017 1:50:48 AM	32859
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/19/2017 10:48:20 PM	32840
Surr: BFB	85.5	54-150		%Rec	1	7/19/2017 10:48:20 PM	32840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/19/2017 10:48:20 PM	32840
Toluene	ND	0.049		mg/Kg	1	7/19/2017 10:48:20 PM	32840
Ethylbenzene	ND	0.049		mg/Kg	1	7/19/2017 10:48:20 PM	32840
Xylenes, Total	ND	0.097		mg/Kg	1	7/19/2017 10:48:20 PM	32840
Surr: 4-Bromofluorobenzene	100	66.6-132		%Rec	1	7/19/2017 10:48:20 PM	32840

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1707766

Date Reported: 7/28/2017

CLIENT: GHD

Client Sample ID: 088210-37-071217-SPTP10-20'

Project: Perdome BMP State 1

Collection Date: 7/12/2017 1:15:00 PM

Lab ID: 1707766-008

Matrix: SOIL

Received Date: 7/14/2017 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	260	30		mg/Kg	20	7/25/2017 1:11:28 PM	32992
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/20/2017 2:24:35 PM	32859
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/20/2017 2:24:35 PM	32859
Surr: DNOP	93.7	70-130		%Rec	1	7/20/2017 2:24:35 PM	32859
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/19/2017 11:12:13 PM	32840
Surr: BFB	84.6	54-150		%Rec	1	7/19/2017 11:12:13 PM	32840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/19/2017 11:12:13 PM	32840
Toluene	ND	0.048		mg/Kg	1	7/19/2017 11:12:13 PM	32840
Ethylbenzene	ND	0.048		mg/Kg	1	7/19/2017 11:12:13 PM	32840
Xylenes, Total	ND	0.097		mg/Kg	1	7/19/2017 11:12:13 PM	32840
Surr: 4-Bromofluorobenzene	101	66.6-132		%Rec	1	7/19/2017 11:12:13 PM	32840

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707766**

Date Reported: **7/28/2017**

CLIENT: GHD

Client Sample ID: 088210-37-071217-SPTP11-2'

Project: Perdome BMP State 1

Collection Date: 7/12/2017 1:35:00 PM

Lab ID: 1707766-009

Matrix: SOIL

Received Date: 7/14/2017 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	7/25/2017 1:23:53 PM	32992
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/20/2017 2:34:57 AM	32859
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/20/2017 2:34:57 AM	32859
Surr: DNOP	70.0	70-130		%Rec	1	7/20/2017 2:34:57 AM	32859
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/19/2017 11:36:08 PM	32840
Surr: BFB	83.3	54-150		%Rec	1	7/19/2017 11:36:08 PM	32840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/19/2017 11:36:08 PM	32840
Toluene	ND	0.049		mg/Kg	1	7/19/2017 11:36:08 PM	32840
Ethylbenzene	ND	0.049		mg/Kg	1	7/19/2017 11:36:08 PM	32840
Xylenes, Total	ND	0.098		mg/Kg	1	7/19/2017 11:36:08 PM	32840
Surr: 4-Bromofluorobenzene	97.2	66.6-132		%Rec	1	7/19/2017 11:36:08 PM	32840

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707766**

Date Reported: **7/28/2017**

CLIENT: GHD

Client Sample ID: 088210-37-071217-SPTP11-4'

Project: Perdome BMP State 1

Collection Date: 7/12/2017 1:40:00 PM

Lab ID: 1707766-010

Matrix: SOIL

Received Date: 7/14/2017 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	7/25/2017 1:36:17 PM	32992
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/20/2017 2:46:48 PM	32859
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/20/2017 2:46:48 PM	32859
Surr: DNOP	93.0	70-130		%Rec	1	7/20/2017 2:46:48 PM	32859
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/20/2017 12:00:03 AM	32840
Surr: BFB	88.6	54-150		%Rec	1	7/20/2017 12:00:03 AM	32840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/20/2017 12:00:03 AM	32840
Toluene	ND	0.048		mg/Kg	1	7/20/2017 12:00:03 AM	32840
Ethylbenzene	ND	0.048		mg/Kg	1	7/20/2017 12:00:03 AM	32840
Xylenes, Total	ND	0.096		mg/Kg	1	7/20/2017 12:00:03 AM	32840
Surr: 4-Bromofluorobenzene	104	66.6-132		%Rec	1	7/20/2017 12:00:03 AM	32840

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1707766

28-Jul-17

Client: GHD

Project: Perdome BMP State 1

Sample ID	MB-32979		SampType: MBLK		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 32979		RunNo: 44475					
Prep Date:	7/24/2017		Analysis Date: 7/24/2017		SeqNo: 1406134		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-32979			SampType:	LCS		TestCode:	EPA Method 300.0: Anions			
Client ID:	LCSS			Batch ID:	32979		RunNo:	44475			
Prep Date:	7/24/2017			Analysis Date:	7/24/2017		SeqNo:	1406135		Units:	mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	14	1.5	15.00	0	95.0	90	110				

Sample ID	MB-32992		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	32992		RunNo:	44474				
Prep Date:	7/25/2017		Analysis Date:	7/25/2017		SeqNo:	1407525		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-32992		SampType:	LCS		TestCode:	EPA Method 300.0: Anions				
Client ID:	LCSS		Batch ID:	32992		RunNo:	44474				
Prep Date:	7/25/2017		Analysis Date:	7/25/2017		SeqNo:	1407526		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	14	1.5	15.00	0	91.6	90	110				

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1707766

28-Jul-17

Client: GHD

Project: Perdome BMP State 1

Sample ID	MB-32859		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 32859		RunNo: 44338					
Prep Date:	7/18/2017		Analysis Date: 7/20/2017		SeqNo: 1401060		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.0	70	130			

Sample ID	LCS-32859		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 32859		RunNo: 44338					
Prep Date:	7/18/2017		Analysis Date: 7/20/2017		SeqNo: 1401181		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	73.2	114			
Surr: DNOP	4.8		5.000		95.1	70	130			

Sample ID	1707766-001AMS		SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	088210-37-071117-S		Batch ID: 32859		RunNo: 44338					
Prep Date:	7/18/2017		Analysis Date: 7/20/2017		SeqNo: 1402448		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	87	9.8	49.21	60.38	54.3	55.8	122			S
Surr: DNOP	4.9		4.921		99.1	70	130			

Sample ID	1707766-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	088210-37-071117-S		Batch ID:	32859		RunNo:	44338				
Prep Date:	7/18/2017		Analysis Date:	7/20/2017		SeqNo:	1402449		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	85	9.4	46.86	60.38	51.8	55.8	122	2.84	20	S	
Surr: DNOP	4.8		4.686		102	70	130	0	0		

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1707766

28-Jul-17

Client: GHD

Project: Perdome BMP State 1

Sample ID	MB-32840		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 32840		RunNo: 44331					
Prep Date:	7/17/2017		Analysis Date: 7/19/2017		SeqNo: 1401079		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.0	54	150			

Sample ID	LCS-32840		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 32840		RunNo: 44331					
Prep Date:	7/17/2017		Analysis Date: 7/19/2017		SeqNo: 1401080		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.5	76.4	125			
Surr: BFB	970		1000		97.2	54	150			

Sample ID	1707766-002AMS		SampType: MS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	088210-37-071117-S		Batch ID: 32840		RunNo: 44331					
Prep Date:	7/17/2017		Analysis Date: 7/19/2017		SeqNo: 1401083		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	620	4.7	23.26	549.9	305	77.8	128			ES
Surr: BFB	25000		930.2		2670	54	150			S

Sample ID	1707766-002AMSD		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	088210-37-071117-S		Batch ID: 32840		RunNo: 44331					
Prep Date:	7/17/2017		Analysis Date: 7/19/2017		SeqNo: 1401084		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	670	4.9	24.41	549.9	508	77.8	128	8.22	20	ES
Surr: BFB	26000		976.6		2630	54	150	0	0	S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1707766

28-Jul-17

Client: GHD

Project: Perdome BMP State 1

Sample ID	MB-32840		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	32840		RunNo:	44331			
Prep Date:	7/17/2017		Analysis Date:	7/19/2017		SeqNo:	1401111	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		105	66.6	132			

Sample ID	LCS-32840		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	32840		RunNo:	44331			
Prep Date:	7/17/2017		Analysis Date:	7/19/2017		SeqNo:	1401112	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.5	80	120			
Toluene	0.93	0.050	1.000	0	92.8	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	66.6	132			

Sample ID	1707766-001AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	088210-37-071117-S		Batch ID:	32840		RunNo:	44331			
Prep Date:	7/17/2017		Analysis Date:	7/19/2017		SeqNo:	1401114	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9488	0	92.6	80.9	132			
Toluene	0.89	0.047	0.9488	0.01556	91.8	79.8	136			
Ethylbenzene	0.90	0.047	0.9488	0	94.9	79.4	140			
Xylenes, Total	2.8	0.095	2.846	0.03007	95.6	78.5	142			
Surr: 4-Bromofluorobenzene	0.96		0.9488		102	66.6	132			

Sample ID	1707766-001AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	088210-37-071117-S		Batch ID:	32840		RunNo:	44331			
Prep Date:	7/17/2017		Analysis Date:	7/19/2017		SeqNo:	1401115	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9434	0	92.0	80.9	132	1.17	20	
Toluene	0.88	0.047	0.9434	0.01556	91.8	79.8	136	0.578	20	
Ethylbenzene	0.89	0.047	0.9434	0	94.3	79.4	140	1.19	20	
Xylenes, Total	2.7	0.094	2.830	0.03007	94.9	78.5	142	1.28	20	
Surr: 4-Bromofluorobenzene	0.96		0.9434		102	66.6	132	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

Anne Thorne

From: Skip Tabor
Sent: Friday, July 14, 2017 8:07 AM
To: Ashley Gallegos; Anne Thorne; Andy Freeman
Subject: GHD

Happie Friday

U will receive shortly samples from GHD
the chain lists 9 samples but there are 10 jars Would you please add the 10 th to the chain Graci

Sent from my iPhone



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 28, 2017

Alan Brandon

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Perdomo BMP State Com 1 H

OrderNo.: 1707A42

Dear Alan Brandon:

Hall Environmental Analysis Laboratory received 16 sample(s) on 7/18/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707A42**

Date Reported: **7/28/2017**

CLIENT: GHD

Client Sample ID: 088210-37-071317-SPTP-17-2'

Project: Perdomo BMP State Com 1 H

Collection Date: 7/13/2017 10:46:00 AM

Lab ID: 1707A42-001

Matrix: SOIL

Received Date: 7/18/2017 8:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	190	30		mg/Kg	20	7/25/2017 3:40:23 PM	32992
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/23/2017 4:54:30 PM	32937
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/23/2017 4:54:30 PM	32937
Surr: DNOP	82.4	70-130		%Rec	1	7/23/2017 4:54:30 PM	32937
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/22/2017 12:35:08 AM	32925
Surr: BFB	84.2	54-150		%Rec	1	7/22/2017 12:35:08 AM	32925
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/22/2017 12:35:08 AM	32925
Toluene	ND	0.048		mg/Kg	1	7/22/2017 12:35:08 AM	32925
Ethylbenzene	ND	0.048		mg/Kg	1	7/22/2017 12:35:08 AM	32925
Xylenes, Total	ND	0.096		mg/Kg	1	7/22/2017 12:35:08 AM	32925
Surr: 4-Bromofluorobenzene	99.0	66.6-132		%Rec	1	7/22/2017 12:35:08 AM	32925

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707A42**

Date Reported: 7/28/2017

CLIENT: GHD

Client Sample ID: 088210-37-071317-SPTP-17-4'

Project: Perdomo BMP State Com 1 H

Collection Date: 7/13/2017 10:47:00 AM

Lab ID: 1707A42-002

Matrix: SOIL

Received Date: 7/18/2017 8:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	7/25/2017 3:52:48 PM	32992
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/23/2017 5:16:52 PM	32937
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/23/2017 5:16:52 PM	32937
Surr: DNOP	89.6	70-130		%Rec	1	7/23/2017 5:16:52 PM	32937
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/22/2017 12:59:05 AM	32925
Surr: BFB	85.2	54-150		%Rec	1	7/22/2017 12:59:05 AM	32925
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/22/2017 12:59:05 AM	32925
Toluene	ND	0.047		mg/Kg	1	7/22/2017 12:59:05 AM	32925
Ethylbenzene	ND	0.047		mg/Kg	1	7/22/2017 12:59:05 AM	32925
Xylenes, Total	ND	0.093		mg/Kg	1	7/22/2017 12:59:05 AM	32925
Surr: 4-Bromofluorobenzene	98.7	66.6-132		%Rec	1	7/22/2017 12:59:05 AM	32925

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707A42**

Date Reported: 7/28/2017

CLIENT: GHD

Client Sample ID: 088210-37-071317-SPTP-18-2'

Project: Perdomo BMP State Com 1 H

Collection Date: 7/13/2017 11:10:00 AM

Lab ID: 1707A42-003

Matrix: SOIL

Received Date: 7/18/2017 8:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	100	30		mg/Kg	20	7/25/2017 4:05:12 PM	32992
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/23/2017 5:39:08 PM	32937
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/23/2017 5:39:08 PM	32937
Surr: DNOP	77.7	70-130		%Rec	1	7/23/2017 5:39:08 PM	32937
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/22/2017 1:23:05 AM	32925
Surr: BFB	82.6	54-150		%Rec	1	7/22/2017 1:23:05 AM	32925
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/22/2017 1:23:05 AM	32925
Toluene	ND	0.049		mg/Kg	1	7/22/2017 1:23:05 AM	32925
Ethylbenzene	ND	0.049		mg/Kg	1	7/22/2017 1:23:05 AM	32925
Xylenes, Total	ND	0.097		mg/Kg	1	7/22/2017 1:23:05 AM	32925
Surr: 4-Bromofluorobenzene	96.0	66.6-132		%Rec	1	7/22/2017 1:23:05 AM	32925

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707A42**

Date Reported: 7/28/2017

CLIENT: GHD

Client Sample ID: 088210-37-071317-SPTP-18-4'

Project: Perdomo BMP State Com 1 H

Collection Date: 7/13/2017 11:15:00 AM

Lab ID: 1707A42-004

Matrix: SOIL

Received Date: 7/18/2017 8:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	52	30		mg/Kg	20	7/25/2017 4:17:37 PM	32992
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	270	9.7		mg/Kg	1	7/23/2017 6:01:41 PM	32937
Motor Oil Range Organics (MRO)	130	48		mg/Kg	1	7/23/2017 6:01:41 PM	32937
Surr: DNOP	89.4	70-130		%Rec	1	7/23/2017 6:01:41 PM	32937
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/22/2017 2:58:53 AM	32925
Surr: BFB	108	54-150		%Rec	1	7/22/2017 2:58:53 AM	32925
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/22/2017 2:58:53 AM	32925
Toluene	ND	0.047		mg/Kg	1	7/22/2017 2:58:53 AM	32925
Ethylbenzene	ND	0.047		mg/Kg	1	7/22/2017 2:58:53 AM	32925
Xylenes, Total	ND	0.093		mg/Kg	1	7/22/2017 2:58:53 AM	32925
Surr: 4-Bromofluorobenzene	97.2	66.6-132		%Rec	1	7/22/2017 2:58:53 AM	32925

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707A42**

Date Reported: 7/28/2017

CLIENT: GHD

Client Sample ID: 088210-37-071317-SPTP-19-2'

Project: Perdomo BMP State Com 1 H

Collection Date: 7/13/2017 11:25:00 AM

Lab ID: 1707A42-005

Matrix: SOIL

Received Date: 7/18/2017 8:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	58	30		mg/Kg	20	7/25/2017 6:09:18 PM	32999
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/23/2017 6:23:51 PM	32937
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/23/2017 6:23:51 PM	32937
Surr: DNOP	85.4	70-130		%Rec	1	7/23/2017 6:23:51 PM	32937
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/22/2017 3:22:49 AM	32925
Surr: BFB	85.3	54-150		%Rec	1	7/22/2017 3:22:49 AM	32925
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/22/2017 3:22:49 AM	32925
Toluene	ND	0.049		mg/Kg	1	7/22/2017 3:22:49 AM	32925
Ethylbenzene	ND	0.049		mg/Kg	1	7/22/2017 3:22:49 AM	32925
Xylenes, Total	ND	0.097		mg/Kg	1	7/22/2017 3:22:49 AM	32925
Surr: 4-Bromofluorobenzene	99.5	66.6-132		%Rec	1	7/22/2017 3:22:49 AM	32925

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707A42**

Date Reported: **7/28/2017**

CLIENT: GHD

Client Sample ID: 088210-37-071317-SPTP-19-4'

Project: Perdomo BMP State Com 1 H

Collection Date: 7/13/2017 11:30:00 AM

Lab ID: 1707A42-006

Matrix: SOIL

Received Date: 7/18/2017 8:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	7/25/2017 6:46:32 PM	32999
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/23/2017 6:46:17 PM	32937
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/23/2017 6:46:17 PM	32937
Surr: DNOP	87.8	70-130		%Rec	1	7/23/2017 6:46:17 PM	32937
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/22/2017 3:46:47 AM	32925
Surr: BFB	83.8	54-150		%Rec	1	7/22/2017 3:46:47 AM	32925
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/22/2017 3:46:47 AM	32925
Toluene	ND	0.048		mg/Kg	1	7/22/2017 3:46:47 AM	32925
Ethylbenzene	ND	0.048		mg/Kg	1	7/22/2017 3:46:47 AM	32925
Xylenes, Total	ND	0.096		mg/Kg	1	7/22/2017 3:46:47 AM	32925
Surr: 4-Bromofluorobenzene	98.0	66.6-132		%Rec	1	7/22/2017 3:46:47 AM	32925

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707A42**

Date Reported: **7/28/2017**

CLIENT: GHD

Client Sample ID: 088210-37-071317-SPTP-20-2'

Project: Perdomo BMP State Com 1 H

Collection Date: 7/13/2017 1:48:00 PM

Lab ID: 1707A42-007

Matrix: SOIL

Received Date: 7/18/2017 8:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	7/25/2017 6:58:57 PM	32999
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/23/2017 7:08:31 PM	32937
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/23/2017 7:08:31 PM	32937
Surr: DNOP	80.0	70-130		%Rec	1	7/23/2017 7:08:31 PM	32937
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/22/2017 4:10:52 AM	32925
Surr: BFB	85.3	54-150		%Rec	1	7/22/2017 4:10:52 AM	32925
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/22/2017 4:10:52 AM	32925
Toluene	ND	0.047		mg/Kg	1	7/22/2017 4:10:52 AM	32925
Ethylbenzene	ND	0.047		mg/Kg	1	7/22/2017 4:10:52 AM	32925
Xylenes, Total	ND	0.094		mg/Kg	1	7/22/2017 4:10:52 AM	32925
Surr: 4-Bromofluorobenzene	99.7	66.6-132		%Rec	1	7/22/2017 4:10:52 AM	32925

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707A42**

Date Reported: 7/28/2017

CLIENT: GHD

Client Sample ID: 088210-37-071317-SPTP-20-4'

Project: Perdomo BMP State Com 1 H

Collection Date: 7/13/2017 1:55:00 PM

Lab ID: 1707A42-008

Matrix: SOIL

Received Date: 7/18/2017 8:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	7/25/2017 7:11:21 PM	32999
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/23/2017 7:30:48 PM	32937
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/23/2017 7:30:48 PM	32937
Surr: DNOP	80.7	70-130		%Rec	1	7/23/2017 7:30:48 PM	32937
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/21/2017 10:06:47 PM	32928
Surr: BFB	99.5	54-150		%Rec	1	7/21/2017 10:06:47 PM	32928
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/21/2017 10:06:47 PM	32928
Toluene	ND	0.047		mg/Kg	1	7/21/2017 10:06:47 PM	32928
Ethylbenzene	ND	0.047		mg/Kg	1	7/21/2017 10:06:47 PM	32928
Xylenes, Total	ND	0.094		mg/Kg	1	7/21/2017 10:06:47 PM	32928
Surr: 4-Bromofluorobenzene	109	66.6-132		%Rec	1	7/21/2017 10:06:47 PM	32928

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707A42**

Date Reported: **7/28/2017**

CLIENT: GHD

Client Sample ID: 088210-37-071317-SPTP-22-2'

Project: Perdomo BMP State Com 1 H

Collection Date: 7/13/2017 2:00:00 PM

Lab ID: 1707A42-009

Matrix: SOIL

Received Date: 7/18/2017 8:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	100	30		mg/Kg	20	7/25/2017 7:23:46 PM	32999
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/25/2017 12:44:38 AM	32937
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/25/2017 12:44:38 AM	32937
Surr: DNOP	72.7	70-130		%Rec	1	7/25/2017 12:44:38 AM	32937
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/21/2017 10:30:33 PM	32928
Surr: BFB	94.5	54-150		%Rec	1	7/21/2017 10:30:33 PM	32928
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/21/2017 10:30:33 PM	32928
Toluene	ND	0.047		mg/Kg	1	7/21/2017 10:30:33 PM	32928
Ethylbenzene	ND	0.047		mg/Kg	1	7/21/2017 10:30:33 PM	32928
Xylenes, Total	ND	0.094		mg/Kg	1	7/21/2017 10:30:33 PM	32928
Surr: 4-Bromofluorobenzene	107	66.6-132		%Rec	1	7/21/2017 10:30:33 PM	32928

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707A42**

Date Reported: 7/28/2017

CLIENT: GHD

Client Sample ID: 088210-37-071317-SPTP-22-4'

Project: Perdomo BMP State Com 1 H

Collection Date: 7/13/2017 2:05:00 PM

Lab ID: 1707A42-010

Matrix: SOIL

Received Date: 7/18/2017 8:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	62	30		mg/Kg	20	7/25/2017 7:36:10 PM	32999
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/25/2017 1:07:02 AM	32937
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/25/2017 1:07:02 AM	32937
Surr: DNOP	72.7	70-130		%Rec	1	7/25/2017 1:07:02 AM	32937
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/21/2017 10:54:17 PM	32928
Surr: BFB	95.6	54-150		%Rec	1	7/21/2017 10:54:17 PM	32928
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/21/2017 10:54:17 PM	32928
Toluene	ND	0.049		mg/Kg	1	7/21/2017 10:54:17 PM	32928
Ethylbenzene	ND	0.049		mg/Kg	1	7/21/2017 10:54:17 PM	32928
Xylenes, Total	ND	0.099		mg/Kg	1	7/21/2017 10:54:17 PM	32928
Surr: 4-Bromofluorobenzene	108	66.6-132		%Rec	1	7/21/2017 10:54:17 PM	32928

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707A42**

Date Reported: 7/28/2017

CLIENT: GHD

Client Sample ID: 088210-37-071317-SPTP-13-2'

Project: Perdomo BMP State Com 1 H

Collection Date: 7/13/2017 2:30:00 PM

Lab ID: 1707A42-011

Matrix: SOIL

Received Date: 7/18/2017 8:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	7/25/2017 7:48:35 PM	32999
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/25/2017 1:29:29 AM	32937
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/25/2017 1:29:29 AM	32937
Surr: DNOP	71.0	70-130		%Rec	1	7/25/2017 1:29:29 AM	32937
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/21/2017 11:17:56 PM	32928
Surr: BFB	93.9	54-150		%Rec	1	7/21/2017 11:17:56 PM	32928
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/21/2017 11:17:56 PM	32928
Toluene	ND	0.047		mg/Kg	1	7/21/2017 11:17:56 PM	32928
Ethylbenzene	ND	0.047		mg/Kg	1	7/21/2017 11:17:56 PM	32928
Xylenes, Total	ND	0.093		mg/Kg	1	7/21/2017 11:17:56 PM	32928
Surr: 4-Bromofluorobenzene	106	66.6-132		%Rec	1	7/21/2017 11:17:56 PM	32928

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707A42**

Date Reported: **7/28/2017**

CLIENT: GHD

Client Sample ID: 088210-37-071317-SPTP-13-4'

Project: Perdomo BMP State Com 1 H

Collection Date: 7/13/2017 2:35:00 PM

Lab ID: 1707A42-012

Matrix: SOIL

Received Date: 7/18/2017 8:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	7/25/2017 8:01:00 PM	32999
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/25/2017 1:52:08 AM	32937
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/25/2017 1:52:08 AM	32937
Surr: DNOP	71.3	70-130		%Rec	1	7/25/2017 1:52:08 AM	32937
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/21/2017 11:41:32 PM	32928
Surr: BFB	94.5	54-150		%Rec	1	7/21/2017 11:41:32 PM	32928
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/21/2017 11:41:32 PM	32928
Toluene	ND	0.046		mg/Kg	1	7/21/2017 11:41:32 PM	32928
Ethylbenzene	ND	0.046		mg/Kg	1	7/21/2017 11:41:32 PM	32928
Xylenes, Total	ND	0.093		mg/Kg	1	7/21/2017 11:41:32 PM	32928
Surr: 4-Bromofluorobenzene	108	66.6-132		%Rec	1	7/21/2017 11:41:32 PM	32928

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707A42**

Date Reported: 7/28/2017

CLIENT: GHD

Client Sample ID: 088210-37-071317-SPTP-15-2'

Project: Perdomo BMP State Com 1 H

Collection Date: 7/13/2017 2:45:00 PM

Lab ID: 1707A42-013

Matrix: SOIL

Received Date: 7/18/2017 8:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	210	30		mg/Kg	20	7/25/2017 8:38:14 PM	32999
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/25/2017 2:14:38 AM	32937
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/25/2017 2:14:38 AM	32937
Surr: DNOP	98.8	70-130		%Rec	1	7/25/2017 2:14:38 AM	32937
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/22/2017 2:50:31 AM	32928
Surr: BFB	98.5	54-150		%Rec	1	7/22/2017 2:50:31 AM	32928
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/22/2017 2:50:31 AM	32928
Toluene	ND	0.048		mg/Kg	1	7/22/2017 2:50:31 AM	32928
Ethylbenzene	ND	0.048		mg/Kg	1	7/22/2017 2:50:31 AM	32928
Xylenes, Total	ND	0.095		mg/Kg	1	7/22/2017 2:50:31 AM	32928
Surr: 4-Bromofluorobenzene	111	66.6-132		%Rec	1	7/22/2017 2:50:31 AM	32928

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707A42**

Date Reported: 7/28/2017

CLIENT: GHD

Client Sample ID: 088210-37-071317-SPTP-15-4'

Project: Perdomo BMP State Com 1 H

Collection Date: 7/13/2017 2:50:00 PM

Lab ID: 1707A42-014

Matrix: SOIL

Received Date: 7/18/2017 8:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	7/25/2017 8:50:39 PM	32999
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/25/2017 1:10:05 PM	32937
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	7/25/2017 1:10:05 PM	32937
Surr: DNOP	80.0	70-130		%Rec	1	7/25/2017 1:10:05 PM	32937
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/22/2017 3:14:05 AM	32928
Surr: BFB	95.7	54-150		%Rec	1	7/22/2017 3:14:05 AM	32928
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/22/2017 3:14:05 AM	32928
Toluene	ND	0.047		mg/Kg	1	7/22/2017 3:14:05 AM	32928
Ethylbenzene	ND	0.047		mg/Kg	1	7/22/2017 3:14:05 AM	32928
Xylenes, Total	ND	0.093		mg/Kg	1	7/22/2017 3:14:05 AM	32928
Surr: 4-Bromofluorobenzene	108	66.6-132		%Rec	1	7/22/2017 3:14:05 AM	32928

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707A42**

Date Reported: 7/28/2017

CLIENT: GHD

Client Sample ID: 088210-37-071317-SPTP-16-2'

Project: Perdomo BMP State Com 1 H

Collection Date: 7/13/2017 3:05:00 PM

Lab ID: 1707A42-015

Matrix: SOIL

Received Date: 7/18/2017 8:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	7/25/2017 9:03:04 PM	32999
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/25/2017 2:50:34 PM	32937
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/25/2017 2:50:34 PM	32937
Surr: DNOP	72.3	70-130		%Rec	1	7/25/2017 2:50:34 PM	32937
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/22/2017 3:37:36 AM	32928
Surr: BFB	95.6	54-150		%Rec	1	7/22/2017 3:37:36 AM	32928
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/22/2017 3:37:36 AM	32928
Toluene	ND	0.046		mg/Kg	1	7/22/2017 3:37:36 AM	32928
Ethylbenzene	ND	0.046		mg/Kg	1	7/22/2017 3:37:36 AM	32928
Xylenes, Total	ND	0.092		mg/Kg	1	7/22/2017 3:37:36 AM	32928
Surr: 4-Bromofluorobenzene	109	66.6-132		%Rec	1	7/22/2017 3:37:36 AM	32928

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1707A42**

Date Reported: 7/28/2017

CLIENT: GHD

Client Sample ID: 088210-37-071317-SPTP-16-4'

Project: Perdomo BMP State Com 1 H

Collection Date: 7/13/2017 3:10:00 PM

Lab ID: 1707A42-016

Matrix: SOIL

Received Date: 7/18/2017 8:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	7/25/2017 9:15:28 PM	32999
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/25/2017 2:00:07 PM	32937
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/25/2017 2:00:07 PM	32937
Surr: DNOP	75.5	70-130		%Rec	1	7/25/2017 2:00:07 PM	32937
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/22/2017 4:01:22 AM	32928
Surr: BFB	95.4	54-150		%Rec	1	7/22/2017 4:01:22 AM	32928
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/22/2017 4:01:22 AM	32928
Toluene	ND	0.049		mg/Kg	1	7/22/2017 4:01:22 AM	32928
Ethylbenzene	ND	0.049		mg/Kg	1	7/22/2017 4:01:22 AM	32928
Xylenes, Total	ND	0.098		mg/Kg	1	7/22/2017 4:01:22 AM	32928
Surr: 4-Bromofluorobenzene	106	66.6-132		%Rec	1	7/22/2017 4:01:22 AM	32928

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1707A42

28-Jul-17

Client: GHD

Project: Perdomo BMP State Com 1 H

Sample ID	MB-32992		SampType: MBLK		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 32992		RunNo: 44474					
Prep Date:	7/25/2017		Analysis Date: 7/25/2017		SeqNo: 1407525		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-32992		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 32992		RunNo: 44474					
Prep Date:	7/25/2017		Analysis Date: 7/25/2017		SeqNo: 1407526		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.6	90	110			

Sample ID	MB-32999		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	32999		RunNo:	44474				
Prep Date:	7/25/2017		Analysis Date:	7/25/2017		SeqNo:	1407557		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-32999		SampType:	LCS		TestCode:	EPA Method 300.0: Anions				
Client ID:	LCSS		Batch ID:	32999		RunNo:	44474				
Prep Date:	7/25/2017		Analysis Date:	7/25/2017		SeqNo:	1407558		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	14	1.5	15.00	0	92.6	90	110				

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1707A42

28-Jul-17

Client: GHD

Project: Perdomo BMP State Com 1 H

Sample ID	MB-32937		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 32937		RunNo: 44411					
Prep Date:	7/21/2017		Analysis Date: 7/23/2017		SeqNo: 1403741		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.7	70	130			

Sample ID	LCS-32937		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 32937		RunNo: 44411					
Prep Date:	7/21/2017		Analysis Date: 7/23/2017		SeqNo: 1403768		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.7	73.2	114			
Surr: DNOP	4.6		5.000		91.0	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1707A42

28-Jul-17

Client: GHD

Project: Perdomo BMP State Com 1 H

Sample ID	MB-32925		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 32925		RunNo: 44391					
Prep Date:	7/20/2017		Analysis Date: 7/21/2017		SeqNo: 1403909		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		88.2	54	150			

Sample ID	LCS-32925		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 32925		RunNo: 44391					
Prep Date:	7/20/2017		Analysis Date: 7/21/2017		SeqNo: 1403910		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.9	76.4	125			
Surr: BFB	970		1000		96.6	54	150			

Sample ID	MB-32928		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	32928		RunNo:	44392				
Prep Date:	7/20/2017		Analysis Date:	7/21/2017		SeqNo:	1403978		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	960		1000		95.7	54	150				

Sample ID	LCS-32928		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 32928		RunNo: 44392					
Prep Date:	7/20/2017		Analysis Date: 7/21/2017		SeqNo: 1403979		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.4	76.4	125			
Surr: BFB	1100		1000		105	54	150			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1707A42

28-Jul-17

Client: GHD

Project: Perdomo BMP State Com 1 H

Sample ID	MB-32925		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	32925		RunNo:	44391			
Prep Date:	7/20/2017		Analysis Date:	7/21/2017		SeqNo:	1403945	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	66.6	132			

Sample ID	LCS-32925		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	32925		RunNo:	44391			
Prep Date:	7/20/2017		Analysis Date:	7/21/2017		SeqNo:	1403946	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.5	80	120			
Toluene	0.96	0.050	1.000	0	95.9	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	66.6	132			

Sample ID	MB-32928		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	32928		RunNo:	44392			
Prep Date:	7/20/2017		Analysis Date:	7/21/2017		SeqNo:	1404014	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	66.6	132			

Sample ID	LCS-32928		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	32928		RunNo:	44392			
Prep Date:	7/20/2017		Analysis Date:	7/21/2017		SeqNo:	1404015	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	84.2	80	120			
Toluene	0.82	0.050	1.000	0	82.4	80	120			
Ethylbenzene	0.86	0.050	1.000	0	86.2	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.3	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	66.6	132			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: GHD

Work Order Number: 1707A42

RcptNo: 1

Received By: Andy Jansson 7/18/2017 8:40:00 AM

Completed By: Ashley Gallegos 7/20/2017 9:29:28 AM

Reviewed By: ENM 7/20/17

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Client

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.8	Good	Not Present			



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 24, 2017

Alan Brandon

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Perdomo BMP State 1H

OrderNo.: 1708941

Dear Alan Brandon:

Hall Environmental Analysis Laboratory received 16 sample(s) on 8/15/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 1708941

Date Reported: 8/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Perdomo BMP State 1H

Lab Order: 1708941

Lab ID: 1708941-001
Client Sample ID: S-088210-37-081017-SP-TP-23-6'

Collection Date: 8/10/2017 3:15:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	420	30		mg/Kg	20	8/23/2017 11:14:39 AM	33512
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	8/18/2017 4:11:20 PM	33429
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/18/2017 4:11:20 PM	33429
Surr: DNOP	88.9	70-130		%Rec	1	8/18/2017 4:11:20 PM	33429
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/17/2017 12:05:30 PM	33396
Surr: BFB	88.8	54-150		%Rec	1	8/17/2017 12:05:30 PM	33396
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	8/17/2017 12:05:30 PM	33396
Toluene	ND	0.047		mg/Kg	1	8/17/2017 12:05:30 PM	33396
Ethylbenzene	ND	0.047		mg/Kg	1	8/17/2017 12:05:30 PM	33396
Xylenes, Total	ND	0.094		mg/Kg	1	8/17/2017 12:05:30 PM	33396
Surr: 4-Bromofluorobenzene	99.9	66.6-132		%Rec	1	8/17/2017 12:05:30 PM	33396

Lab ID: 1708941-002
Client Sample ID: S-088210-37-081017-SP-TP-23-8'

Collection Date: 8/10/2017 3:17:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	430	30		mg/Kg	20	8/23/2017 11:51:53 AM	33512
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/18/2017 4:33:31 PM	33429
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/18/2017 4:33:31 PM	33429
Surr: DNOP	83.8	70-130		%Rec	1	8/18/2017 4:33:31 PM	33429
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/17/2017 1:16:27 PM	33396
Surr: BFB	88.0	54-150		%Rec	1	8/17/2017 1:16:27 PM	33396
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/17/2017 1:16:27 PM	33396
Toluene	ND	0.047		mg/Kg	1	8/17/2017 1:16:27 PM	33396
Ethylbenzene	ND	0.047		mg/Kg	1	8/17/2017 1:16:27 PM	33396
Xylenes, Total	ND	0.095		mg/Kg	1	8/17/2017 1:16:27 PM	33396
Surr: 4-Bromofluorobenzene	100	66.6-132		%Rec	1	8/17/2017 1:16:27 PM	33396

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1708941

Date Reported: 8/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Perdomo BMP State 1H

Lab Order: 1708941

Lab ID: 1708941-003
Client Sample ID: S-088210-37-081017-SP-TP-24-2'

Collection Date: 8/10/2017 3:19:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	300	30		mg/Kg	20	8/23/2017 12:04:18 PM	33512
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/18/2017 4:55:42 PM	33429
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/18/2017 4:55:42 PM	33429
Surr: DNOP	87.5	70-130		%Rec	1	8/18/2017 4:55:42 PM	33429
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/17/2017 1:40:02 PM	33396
Surr: BFB	89.2	54-150		%Rec	1	8/17/2017 1:40:02 PM	33396
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/17/2017 1:40:02 PM	33396
Toluene	ND	0.048		mg/Kg	1	8/17/2017 1:40:02 PM	33396
Ethylbenzene	ND	0.048		mg/Kg	1	8/17/2017 1:40:02 PM	33396
Xylenes, Total	ND	0.096		mg/Kg	1	8/17/2017 1:40:02 PM	33396
Surr: 4-Bromofluorobenzene	97.9	66.6-132		%Rec	1	8/17/2017 1:40:02 PM	33396

Lab ID: 1708941-004
Client Sample ID: S-088210-37-081017-SP-TP-24-4'

Collection Date: 8/10/2017 3:22:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	240	30		mg/Kg	20	8/23/2017 12:41:32 PM	33512
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/18/2017 5:18:06 PM	33429
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/18/2017 5:18:06 PM	33429
Surr: DNOP	75.3	70-130		%Rec	1	8/18/2017 5:18:06 PM	33429
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/17/2017 2:03:48 PM	33396
Surr: BFB	87.8	54-150		%Rec	1	8/17/2017 2:03:48 PM	33396
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/17/2017 2:03:48 PM	33396
Toluene	ND	0.050		mg/Kg	1	8/17/2017 2:03:48 PM	33396
Ethylbenzene	ND	0.050		mg/Kg	1	8/17/2017 2:03:48 PM	33396
Xylenes, Total	ND	0.10		mg/Kg	1	8/17/2017 2:03:48 PM	33396
Surr: 4-Bromofluorobenzene	99.1	66.6-132		%Rec	1	8/17/2017 2:03:48 PM	33396

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1708941

Date Reported: 8/24/2017

CLIENT: GHD
Project: Perdomo BMP State 1H

Lab Order: 1708941

Lab ID: 1708941-005
Client Sample ID: S-088210-37-081017-SP-TP-25-2'

Collection Date: 8/10/2017 3:32:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	210	30		mg/Kg	20	8/23/2017 12:53:56 PM	33512
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/21/2017 3:29:44 PM	33429
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/21/2017 3:29:44 PM	33429
Surr: DNOP	93.3	70-130		%Rec	1	8/21/2017 3:29:44 PM	33429
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/17/2017 2:27:32 PM	33396
Surr: BFB	88.3	54-150		%Rec	1	8/17/2017 2:27:32 PM	33396
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	8/17/2017 2:27:32 PM	33396
Toluene	ND	0.046		mg/Kg	1	8/17/2017 2:27:32 PM	33396
Ethylbenzene	ND	0.046		mg/Kg	1	8/17/2017 2:27:32 PM	33396
Xylenes, Total	ND	0.091		mg/Kg	1	8/17/2017 2:27:32 PM	33396
Surr: 4-Bromofluorobenzene	99.8	66.6-132		%Rec	1	8/17/2017 2:27:32 PM	33396

Lab ID: 1708941-006
Client Sample ID: S-088210-37-081017-SP-TP-25-4'

Collection Date: 8/10/2017 3:34:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	240	30		mg/Kg	20	8/23/2017 1:06:20 PM	33512
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/21/2017 3:51:46 PM	33429
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/21/2017 3:51:46 PM	33429
Surr: DNOP	84.1	70-130		%Rec	1	8/21/2017 3:51:46 PM	33429
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/17/2017 2:51:21 PM	33396
Surr: BFB	87.7	54-150		%Rec	1	8/17/2017 2:51:21 PM	33396
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/17/2017 2:51:21 PM	33396
Toluene	ND	0.047		mg/Kg	1	8/17/2017 2:51:21 PM	33396
Ethylbenzene	ND	0.047		mg/Kg	1	8/17/2017 2:51:21 PM	33396
Xylenes, Total	ND	0.095		mg/Kg	1	8/17/2017 2:51:21 PM	33396
Surr: 4-Bromofluorobenzene	99.6	66.6-132		%Rec	1	8/17/2017 2:51:21 PM	33396

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1708941

Date Reported: 8/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Perdomo BMP State 1H

Lab Order: 1708941

Lab ID: 1708941-007
Client Sample ID: S-088210-37-081017-SP-TP-26-2'

Collection Date: 8/10/2017 3:36:00 PM

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	320	30		mg/Kg	20	8/23/2017 1:18:44 PM	33512
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/21/2017 4:13:49 PM	33429
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/21/2017 4:13:49 PM	33429
Surr: DNOP	104	70-130		%Rec	1	8/21/2017 4:13:49 PM	33429
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/19/2017 1:36:18 AM	33424
Surr: BFB	79.4	54-150		%Rec	1	8/19/2017 1:36:18 AM	33424
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	8/19/2017 1:36:18 AM	33424
Toluene	ND	0.047		mg/Kg	1	8/19/2017 1:36:18 AM	33424
Ethylbenzene	ND	0.047		mg/Kg	1	8/19/2017 1:36:18 AM	33424
Xylenes, Total	ND	0.093		mg/Kg	1	8/19/2017 1:36:18 AM	33424
Surr: 4-Bromofluorobenzene	110	66.6-132		%Rec	1	8/19/2017 1:36:18 AM	33424

Lab ID: 1708941-008
Client Sample ID: S-088210-37-081017-SP-TP-26-4'

Collection Date: 8/10/2017 3:38:00 PM

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	400	30		mg/Kg	20	8/23/2017 6:16:33 PM	33527
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/21/2017 4:40:19 PM	33429
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/21/2017 4:40:19 PM	33429
Surr: DNOP	97.4	70-130		%Rec	1	8/21/2017 4:40:19 PM	33429
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/19/2017 2:00:10 AM	33424
Surr: BFB	80.1	54-150		%Rec	1	8/19/2017 2:00:10 AM	33424
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	8/19/2017 2:00:10 AM	33424
Toluene	ND	0.046		mg/Kg	1	8/19/2017 2:00:10 AM	33424
Ethylbenzene	ND	0.046		mg/Kg	1	8/19/2017 2:00:10 AM	33424
Xylenes, Total	ND	0.092		mg/Kg	1	8/19/2017 2:00:10 AM	33424
Surr: 4-Bromofluorobenzene	110	66.6-132		%Rec	1	8/19/2017 2:00:10 AM	33424

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1708941

Date Reported: 8/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Perdomo BMP State 1H

Lab Order: 1708941

Lab ID: 1708941-009
Client Sample ID: S-088210-37-081017-SP-TP-27-2'

Collection Date: 8/10/2017 3:40:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	340	30		mg/Kg	20	8/23/2017 6:53:45 PM	33527
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/21/2017 5:02:22 PM	33429
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/21/2017 5:02:22 PM	33429
Surr: DNOP	95.5	70-130		%Rec	1	8/21/2017 5:02:22 PM	33429
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/19/2017 2:23:56 AM	33424
Surr: BFB	79.4	54-150		%Rec	1	8/19/2017 2:23:56 AM	33424
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/19/2017 2:23:56 AM	33424
Toluene	ND	0.047		mg/Kg	1	8/19/2017 2:23:56 AM	33424
Ethylbenzene	ND	0.047		mg/Kg	1	8/19/2017 2:23:56 AM	33424
Xylenes, Total	ND	0.094		mg/Kg	1	8/19/2017 2:23:56 AM	33424
Surr: 4-Bromofluorobenzene	112	66.6-132		%Rec	1	8/19/2017 2:23:56 AM	33424

Lab ID: 1708941-010
Client Sample ID: S-088210-37-081017-SP-TP-27-4'

Collection Date: 8/10/2017 3:42:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	450	30		mg/Kg	20	8/23/2017 7:06:10 PM	33527
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/18/2017 7:33:17 PM	33429
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/18/2017 7:33:17 PM	33429
Surr: DNOP	73.0	70-130		%Rec	1	8/18/2017 7:33:17 PM	33429
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/19/2017 2:47:46 AM	33424
Surr: BFB	82.2	54-150		%Rec	1	8/19/2017 2:47:46 AM	33424
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/19/2017 2:47:46 AM	33424
Toluene	ND	0.048		mg/Kg	1	8/19/2017 2:47:46 AM	33424
Ethylbenzene	ND	0.048		mg/Kg	1	8/19/2017 2:47:46 AM	33424
Xylenes, Total	ND	0.095		mg/Kg	1	8/19/2017 2:47:46 AM	33424
Surr: 4-Bromofluorobenzene	115	66.6-132		%Rec	1	8/19/2017 2:47:46 AM	33424

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1708941

Date Reported: 8/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Perdomo BMP State 1H

Lab Order: 1708941

Lab ID: 1708941-011
Client Sample ID: S-088210-37-081017-SP-TP-28-2'

Collection Date: 8/10/2017 3:45:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	8/23/2017 7:18:34 PM	33527
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/18/2017 7:55:37 PM	33429
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/18/2017 7:55:37 PM	33429
Surr: DNOP	77.4	70-130		%Rec	1	8/18/2017 7:55:37 PM	33429
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/19/2017 3:11:36 AM	33424
Surr: BFB	84.2	54-150		%Rec	1	8/19/2017 3:11:36 AM	33424
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/19/2017 3:11:36 AM	33424
Toluene	ND	0.048		mg/Kg	1	8/19/2017 3:11:36 AM	33424
Ethylbenzene	ND	0.048		mg/Kg	1	8/19/2017 3:11:36 AM	33424
Xylenes, Total	ND	0.097		mg/Kg	1	8/19/2017 3:11:36 AM	33424
Surr: 4-Bromofluorobenzene	116	66.6-132		%Rec	1	8/19/2017 3:11:36 AM	33424

Lab ID: 1708941-012
Client Sample ID: S-088210-37-081017-SP-TP-28-4'

Collection Date: 8/10/2017 3:47:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	8/23/2017 7:30:57 PM	33527
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/21/2017 5:24:43 PM	33429
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/21/2017 5:24:43 PM	33429
Surr: DNOP	79.6	70-130		%Rec	1	8/21/2017 5:24:43 PM	33429
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/19/2017 3:35:29 AM	33424
Surr: BFB	81.0	54-150		%Rec	1	8/19/2017 3:35:29 AM	33424
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/19/2017 3:35:29 AM	33424
Toluene	ND	0.048		mg/Kg	1	8/19/2017 3:35:29 AM	33424
Ethylbenzene	ND	0.048		mg/Kg	1	8/19/2017 3:35:29 AM	33424
Xylenes, Total	ND	0.095		mg/Kg	1	8/19/2017 3:35:29 AM	33424
Surr: 4-Bromofluorobenzene	112	66.6-132		%Rec	1	8/19/2017 3:35:29 AM	33424

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1708941

Date Reported: 8/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Perdomo BMP State 1H

Lab Order: 1708941

Lab ID: 1708941-013
Client Sample ID: S-088210-37-081017-SP-TP-29-2'

Collection Date: 8/10/2017 3:55:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	8/23/2017 8:08:12 PM	33527
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/18/2017 8:40:20 PM	33429
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/18/2017 8:40:20 PM	33429
Surr: DNOP	57.7	70-130	S	%Rec	1	8/18/2017 8:40:20 PM	33429
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/19/2017 3:59:25 AM	33424
Surr: BFB	80.4	54-150		%Rec	1	8/19/2017 3:59:25 AM	33424
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/19/2017 3:59:25 AM	33424
Toluene	ND	0.048		mg/Kg	1	8/19/2017 3:59:25 AM	33424
Ethylbenzene	ND	0.048		mg/Kg	1	8/19/2017 3:59:25 AM	33424
Xylenes, Total	ND	0.095		mg/Kg	1	8/19/2017 3:59:25 AM	33424
Surr: 4-Bromofluorobenzene	112	66.6-132		%Rec	1	8/19/2017 3:59:25 AM	33424

Lab ID: 1708941-014
Client Sample ID: S-088210-37-081017-SP-TP-29-4'

Collection Date: 8/10/2017 3:57:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	540	30		mg/Kg	20	8/23/2017 8:20:36 PM	33527
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/21/2017 6:09:37 PM	33429
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/21/2017 6:09:37 PM	33429
Surr: DNOP	85.2	70-130		%Rec	1	8/21/2017 6:09:37 PM	33429
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/19/2017 4:23:22 AM	33424
Surr: BFB	83.0	54-150		%Rec	1	8/19/2017 4:23:22 AM	33424
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/19/2017 4:23:22 AM	33424
Toluene	ND	0.049		mg/Kg	1	8/19/2017 4:23:22 AM	33424
Ethylbenzene	ND	0.049		mg/Kg	1	8/19/2017 4:23:22 AM	33424
Xylenes, Total	ND	0.098		mg/Kg	1	8/19/2017 4:23:22 AM	33424
Surr: 4-Bromofluorobenzene	115	66.6-132		%Rec	1	8/19/2017 4:23:22 AM	33424

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1708941

Date Reported: 8/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Perdomo BMP State 1H

Lab Order: 1708941

Lab ID: 1708941-015
Client Sample ID: S-088210-37-081017-SP-TP-30-2'

Collection Date: 8/10/2017 4:00:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	8/23/2017 8:33:00 PM	33527
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/18/2017 9:25:19 PM	33429
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/18/2017 9:25:19 PM	33429
Surr: DNOP	77.4	70-130		%Rec	1	8/18/2017 9:25:19 PM	33429
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/19/2017 3:26:18 AM	33424
Surr: BFB	88.7	54-150		%Rec	1	8/19/2017 3:26:18 AM	33424
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/19/2017 3:26:18 AM	33424
Toluene	ND	0.050		mg/Kg	1	8/19/2017 3:26:18 AM	33424
Ethylbenzene	ND	0.050		mg/Kg	1	8/19/2017 3:26:18 AM	33424
Xylenes, Total	ND	0.10		mg/Kg	1	8/19/2017 3:26:18 AM	33424
Surr: 4-Bromofluorobenzene	98.4	66.6-132		%Rec	1	8/19/2017 3:26:18 AM	33424

Lab ID: 1708941-016
Client Sample ID: S-088210-37-081017-SP-TP-30-4'

Collection Date: 8/10/2017 4:02:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	32	30		mg/Kg	20	8/23/2017 8:45:24 PM	33527
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/18/2017 9:47:37 PM	33429
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/18/2017 9:47:37 PM	33429
Surr: DNOP	72.6	70-130		%Rec	1	8/18/2017 9:47:37 PM	33429
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/21/2017 1:07:43 PM	33424
Surr: BFB	73.5	54-150		%Rec	1	8/21/2017 1:07:43 PM	33424
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/21/2017 1:07:43 PM	33424
Toluene	ND	0.049		mg/Kg	1	8/21/2017 1:07:43 PM	33424
Ethylbenzene	ND	0.049		mg/Kg	1	8/21/2017 1:07:43 PM	33424
Xylenes, Total	ND	0.097		mg/Kg	1	8/21/2017 1:07:43 PM	33424
Surr: 4-Bromofluorobenzene	102	66.6-132		%Rec	1	8/21/2017 1:07:43 PM	33424

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708941

24-Aug-17

Client: GHD
Project: Perdomo BMP State 1H

Sample ID	MB-33512		SampType:	mblk		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	33512		RunNo:	45191				
Prep Date:	8/23/2017		Analysis Date:	8/23/2017		SeqNo:	1431085		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-33512		SampType: lcs		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 33512		RunNo: 45191					
Prep Date:	8/23/2017		Analysis Date: 8/23/2017		SeqNo: 1431086		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.6	90	110			

Sample ID	MB-33527		SampType:	mblk		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	33527		RunNo:	45191				
Prep Date:	8/23/2017		Analysis Date:	8/23/2017		SeqNo:	1431122		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-33527		SampType: lcs		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 33527		RunNo: 45191					
Prep Date:	8/23/2017		Analysis Date: 8/23/2017		SeqNo: 1431123		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.7	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708941

24-Aug-17

Client: GHD

Project: Perdomo BMP State 1H

Sample ID	LCS-33429		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 33429		RunNo: 45041					
Prep Date:	8/17/2017		Analysis Date: 8/18/2017		SeqNo: 1426491		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	101	73.2	114			
Surr: DNOP	4.8		5.000		95.0	70	130			

Sample ID	MB-33429	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID: 33429			RunNo: 45041					
Prep Date:	8/17/2017	Analysis Date: 8/18/2017			SeqNo: 1426492		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		90.4	70	130			

Sample ID	LCS-33448		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 33448		RunNo: 45117					
Prep Date:	8/18/2017		Analysis Date: 8/21/2017		SeqNo: 1428776		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.000		77.7	70	130			

Sample ID	MB-33448		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 33448		RunNo: 45117					
Prep Date:	8/18/2017		Analysis Date: 8/21/2017		SeqNo: 1428777		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.4		10.00		84.0	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708941

24-Aug-17

Client: GHD

Project: Perdomo BMP State 1H

Sample ID	MB-33396		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 33396		RunNo: 45025					
Prep Date:	8/16/2017		Analysis Date: 8/17/2017		SeqNo: 1425254		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		87.3	54	150			

Sample ID	LCS-33396		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 33396		RunNo: 45025					
Prep Date:	8/16/2017		Analysis Date: 8/17/2017		SeqNo: 1425255		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.3	76.4	125			
Surr: BFB	950		1000		95.3	54	150			

Sample ID	MB-33432		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 33432		RunNo: 45053					
Prep Date:	8/17/2017		Analysis Date: 8/18/2017		SeqNo: 1427097		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	900		1000		89.8	54	150			

Sample ID	LCS-33432		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 33432		RunNo: 45053					
Prep Date:	8/17/2017		Analysis Date: 8/18/2017		SeqNo: 1427098		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	980		1000		97.8	54	150			

Sample ID	MB-33428		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 33428		RunNo: 45051					
Prep Date:	8/17/2017		Analysis Date: 8/18/2017		SeqNo: 1427171		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	820		1000		82.2	54	150			

Sample ID	LCS-33428		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 33428		RunNo: 45051					
Prep Date:	8/17/2017		Analysis Date: 8/18/2017		SeqNo: 1427173		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	930		1000		93.4	54	150			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708941

24-Aug-17

Client: GHD

Project: Perdomo BMP State 1H

Sample ID	MB-33424		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 33424		RunNo: 45051					
Prep Date:	8/17/2017		Analysis Date: 8/18/2017		SeqNo: 1427200		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	840		1000		84.1	54	150			

Sample ID	LCS-33424		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 33424		RunNo: 45051					
Prep Date:	8/17/2017		Analysis Date: 8/18/2017		SeqNo: 1427202		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.7	76.4	125			
Surr: BFB	980		1000		97.7	54	150			

Sample ID	1708941-007AMS		SampType: MS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	S-088210-37-081017		Batch ID: 33424		RunNo: 45051					
Prep Date:	8/17/2017		Analysis Date: 8/18/2017		SeqNo: 1427206		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.8	23.97	0	110	77.8	128			
Surr: BFB	920		958.8		95.9	54	150			

Sample ID	1708941-007AMSD		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	S-088210-37-081017		Batch ID: 33424		RunNo: 45051					
Prep Date:	8/17/2017		Analysis Date: 8/18/2017		SeqNo: 1427208		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.6	23.04	0	106	77.8	128	7.20	20	
Surr: BFB	900		921.7		97.8	54	150	0	0	

Sample ID	MB-33452		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 33452		RunNo: 45097					
Prep Date:	8/18/2017		Analysis Date: 8/21/2017		SeqNo: 1428026		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	840		1000		84.3	54	150			

Sample ID	LCS-33452		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 33452		RunNo: 45097					
Prep Date:	8/18/2017		Analysis Date: 8/21/2017		SeqNo: 1428027		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	920		1000		92.2	54	150			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708941

24-Aug-17

Client: GHD

Project: Perdomo BMP State 1H

Sample ID	MB-33396		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	33396		RunNo:	45025			
Prep Date:	8/16/2017		Analysis Date:	8/17/2017		SeqNo:	1425279		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		98.5	66.6	132			

Sample ID	LCS-33396		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	33396		RunNo:	45025			
Prep Date:	8/16/2017		Analysis Date:	8/17/2017		SeqNo:	1425280		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.3	80	120			
Toluene	0.88	0.050	1.000	0	87.9	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	66.6	132			

Sample ID	1708941-001AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	S-088210-37-081017		Batch ID:	33396		RunNo:	45025			
Prep Date:	8/16/2017		Analysis Date:	8/17/2017		SeqNo:	1425282		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.024	0.9699	0	91.4	80.9	132			
Toluene	0.93	0.048	0.9699	0	96.2	79.8	136			
Ethylbenzene	0.96	0.048	0.9699	0	98.8	79.4	140			
Xylenes, Total	2.9	0.097	2.910	0	100	78.5	142			
Surr: 4-Bromofluorobenzene	0.99		0.9699		102	66.6	132			

Sample ID	1708941-001AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	S-088210-37-081017		Batch ID:	33396		RunNo:	45025			
Prep Date:	8/16/2017		Analysis Date:	8/17/2017		SeqNo:	1425283		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9728	0	96.9	80.9	132	6.06	20	
Toluene	0.99	0.049	0.9728	0	102	79.8	136	6.25	20	
Ethylbenzene	1.0	0.049	0.9728	0	106	79.4	140	7.45	20	
Xylenes, Total	3.1	0.097	2.918	0	107	78.5	142	6.94	20	
Surr: 4-Bromofluorobenzene	0.99		0.9728		102	66.6	132	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708941

24-Aug-17

Client: GHD
Project: Perdomo BMP State 1H

Sample ID MB-33432	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 33432			RunNo: 45053						
Prep Date: 8/17/2017	Analysis Date: 8/18/2017			SeqNo: 1427128			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		103	66.6	132			

Sample ID LCS-33432	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 33432			RunNo: 45053						
Prep Date: 8/17/2017	Analysis Date: 8/18/2017			SeqNo: 1427129			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		104	66.6	132			

Sample ID MB-33424	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 33424			RunNo: 45051						
Prep Date: 8/17/2017	Analysis Date: 8/18/2017			SeqNo: 1427249			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		115	66.6	132			

Sample ID LCS-33424	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 33424			RunNo: 45051						
Prep Date: 8/17/2017	Analysis Date: 8/18/2017			SeqNo: 1427252			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	80	120			
Toluene	1.0	0.050	1.000	0	105	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.2	0.10	3.000	0	108	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		121	66.6	132			

Sample ID MB-33428	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 33428			RunNo: 45051						
Prep Date: 8/17/2017	Analysis Date: 8/18/2017			SeqNo: 1427275			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		114	66.6	132			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708941

24-Aug-17

Client: GHD

Project: Perdomo BMP State 1H

Sample ID	LCS-33428			SampType:	LCS			TestCode:	EPA Method 8021B: Volatiles		
Client ID:	LCSS			Batch ID:	33428			RunNo:	45051		
Prep Date:	8/17/2017			Analysis Date:	8/18/2017			SeqNo:	1427276 Units: %Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	1.2		1.000		116	66.6	132				

Sample ID	MB-33452		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 33452		RunNo: 45097					
Prep Date:	8/18/2017		Analysis Date: 8/21/2017		SeqNo: 1428054		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		119	66.6	132			

Sample ID	LCS-33452		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 33452		RunNo: 45097					
Prep Date:	8/18/2017		Analysis Date: 8/21/2017		SeqNo: 1428055		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		123	66.6	132			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

Sample Log-In Check List

Client Name: GHD

Work Order Number: 1708941

RcptNo: 1

Received By: Isaiah Ortiz

8/15/2017 8:45:00 AM



Completed By: Ashley Gallegos

8/16/2017 8:59:50 AM



Reviewed By: ENM

8/16/17

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0° C Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

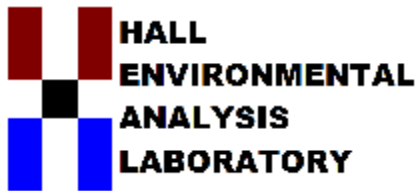
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good	Yes			

Chain-of-Custody Record				Turn-Around Time:		
Client: <u>SHD-Albuquerque</u>		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush		<u>5 day Turn</u>		
Project Name:				<u>Ordono BMP State # 14</u>		
Project #:				<u>088210/37</u>		
Project Manager:				<u>Alan Brandon</u>		
Sampler:				<u>Steve Perez</u>		
On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Sample Temperature: <u>0.9</u>						
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
8/10-17	1515	Soil	5-088210-37-081017-SF-TP-23-6"	4-class-1	TXE	1708940
1	1517		5-088210-37-081017-SF-TP-23-9"			-001
1	1519		5-088210-37-081017-SF-TP-24-2"			-002
1	1522		5-088210-37-081017-SF-TP-24-4"			-003
1	1532		5-088210-37-081017-SF-TP-25-2"			-004
1	1534		5-088210-37-081017-SF-TP-25-4"			-005
1	1536		5-088210-37-081017-SF-TP-26-2"			-006
1	1538		5-088210-37-081017-SF-TP-26-4"			-007
1	1540		5-088210-37-081017-SF-TP-27-2"			-008
1	1542		5-088210-37-081017-SF-TP-27-4"			-009
1	1545		5-088210-37-081017-SF-TP-28-2"			-010
1	1547		5-088210-37-081017-SF-TP-28-4"			-011
1	1547					-012
Date:	Time:	Relinquished by:	Received by:			
8/14/17	9:40	<u>Steve Perez</u>	<u>SHD</u> Date: <u>8/14/17</u> Time: <u>0940</u>			
Date:	Time:	Relinquished by:	Received by:			
8/14/17	1900	<u>SHD</u>	<u>SHD</u> Date: <u>8/15/17</u> Time: <u>8:45</u>			

Turn-Around Time: 5 day Turn <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
Project Name: Pardomo BMP State # 14	
Project #: 088210/37	
Project Manager: Alan Brandon	
Sampler: <u>Steve Perez</u>	
On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Temperature: <u>0.9</u>	
Container Type and #	Preservative Type
66-2655-1	ICE
	HEAL No. 1 1708940
	-001
	-002
	-003
	-004
	-005
	-006
	-007
	-008
	-009
	-010
	-011
	-012
Received by: <u>SPK</u>	Date Time: <u>8/4/17 0940</u>
Received by: <u>SPK</u>	Date Time: <u>8/5/17 8:45</u>

Hall Environmental Analysis Laboratory		www.hallenvironmental.com	
4901 Hawkins NE - Albuquerque, NM 87109		Tel. 505-345-3975 Fax 505-345-4107	
Analysis Request			
BTX + MTBE + TMBs (8021)	BTX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)
			EDB (Method 504.1)
			PAH's (8310 or 8270 SIMS)
			RCRA 8 Metals
			Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)
			8081 Pesticides / 8082 PCB's
			8260B (VOA)
			8270 (Semi-VOA)
			8021 (SEX)
			Chloride 300.0
			Air Bubbles (Y or N)

necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 11, 2017

Alan Brandon

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Perdom BMP State No 1H

OrderNo.: 1708H71

Dear Alan Brandon:

Hall Environmental Analysis Laboratory received 6 sample(s) on 8/31/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 1708H71

Date Reported: 9/11/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Perdom BMP State No 1H

Lab Order: 1708H71

Lab ID: 1708H71-001
Client Sample ID: S-088210-37-082917-SP-TP-33-4'

Collection Date: 8/29/2017 4:05:00 PM**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	34	30		mg/Kg	20	9/7/2017 8:04:34 PM	33760
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/5/2017 5:23:56 PM	33675
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/5/2017 5:23:56 PM	33675
Surr: DNOP	113	70-130		%Rec	1	9/5/2017 5:23:56 PM	33675
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/5/2017 12:14:27 PM	33670
Surr: BFB	90.8	54-150		%Rec	1	9/5/2017 12:14:27 PM	33670
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/5/2017 12:14:27 PM	33670
Toluene	ND	0.048		mg/Kg	1	9/5/2017 12:14:27 PM	33670
Ethylbenzene	ND	0.048		mg/Kg	1	9/5/2017 12:14:27 PM	33670
Xylenes, Total	ND	0.096		mg/Kg	1	9/5/2017 12:14:27 PM	33670
Surr: 4-Bromofluorobenzene	98.0	66.6-132		%Rec	1	9/5/2017 12:14:27 PM	33670

Lab ID: 1708H71-002
Client Sample ID: S-088210-37-082917-SP-TP-34-4'

Collection Date: 8/29/2017 4:08:00 PM**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	9/7/2017 8:41:48 PM	33760
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	32	9.8		mg/Kg	1	9/5/2017 6:31:29 PM	33675
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/5/2017 6:31:29 PM	33675
Surr: DNOP	103	70-130		%Rec	1	9/5/2017 6:31:29 PM	33675
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/5/2017 1:25:26 PM	33670
Surr: BFB	90.3	54-150		%Rec	1	9/5/2017 1:25:26 PM	33670
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/5/2017 1:25:26 PM	33670
Toluene	ND	0.048		mg/Kg	1	9/5/2017 1:25:26 PM	33670
Ethylbenzene	ND	0.048		mg/Kg	1	9/5/2017 1:25:26 PM	33670
Xylenes, Total	ND	0.097		mg/Kg	1	9/5/2017 1:25:26 PM	33670
Surr: 4-Bromofluorobenzene	100	66.6-132		%Rec	1	9/5/2017 1:25:26 PM	33670

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1708H71

Date Reported: 9/11/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Perdom BMP State No 1H

Lab Order: 1708H71

Lab ID: 1708H71-003
Client Sample ID: S-088210-37-082917-SP-TP-35-4'

Collection Date: 8/29/2017 4:12:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	270	30		mg/Kg	20	9/7/2017 8:54:13 PM	33760
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/5/2017 6:53:48 PM	33675
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/5/2017 6:53:48 PM	33675
Surr: DNOP	87.5	70-130		%Rec	1	9/5/2017 6:53:48 PM	33675
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/5/2017 2:36:32 PM	33670
Surr: BFB	89.5	54-150		%Rec	1	9/5/2017 2:36:32 PM	33670
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/5/2017 2:36:32 PM	33670
Toluene	ND	0.049		mg/Kg	1	9/5/2017 2:36:32 PM	33670
Ethylbenzene	ND	0.049		mg/Kg	1	9/5/2017 2:36:32 PM	33670
Xylenes, Total	ND	0.098		mg/Kg	1	9/5/2017 2:36:32 PM	33670
Surr: 4-Bromofluorobenzene	97.9	66.6-132		%Rec	1	9/5/2017 2:36:32 PM	33670

Lab ID: 1708H71-004
Client Sample ID: S-088210-37-082917-SP-TP-36-4'

Collection Date: 8/29/2017 4:18:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	250	30		mg/Kg	20	9/7/2017 9:06:38 PM	33760
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/5/2017 7:16:05 PM	33675
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/5/2017 7:16:05 PM	33675
Surr: DNOP	81.2	70-130		%Rec	1	9/5/2017 7:16:05 PM	33675
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/5/2017 3:00:12 PM	33670
Surr: BFB	89.6	54-150		%Rec	1	9/5/2017 3:00:12 PM	33670
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/5/2017 3:00:12 PM	33670
Toluene	ND	0.047		mg/Kg	1	9/5/2017 3:00:12 PM	33670
Ethylbenzene	ND	0.047		mg/Kg	1	9/5/2017 3:00:12 PM	33670
Xylenes, Total	ND	0.095		mg/Kg	1	9/5/2017 3:00:12 PM	33670
Surr: 4-Bromofluorobenzene	98.2	66.6-132		%Rec	1	9/5/2017 3:00:12 PM	33670

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1708H71

Date Reported: 9/11/2017

CLIENT: GHD
Project: Perdom BMP State No 1H

Lab Order: 1708H71

Lab ID: 1708H71-005
Client Sample ID: S-088210-37-082917-SP-TP-39-4'

Collection Date: 8/29/2017 4:26:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	9/7/2017 9:19:03 PM	33760
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/5/2017 7:38:13 PM	33675
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/5/2017 7:38:13 PM	33675
Surr: DNOP	87.7	70-130		%Rec	1	9/5/2017 7:38:13 PM	33675
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/5/2017 3:23:52 PM	33670
Surr: BFB	88.3	54-150		%Rec	1	9/5/2017 3:23:52 PM	33670
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	9/5/2017 3:23:52 PM	33670
Toluene	ND	0.047		mg/Kg	1	9/5/2017 3:23:52 PM	33670
Ethylbenzene	ND	0.047		mg/Kg	1	9/5/2017 3:23:52 PM	33670
Xylenes, Total	ND	0.094		mg/Kg	1	9/5/2017 3:23:52 PM	33670
Surr: 4-Bromofluorobenzene	97.0	66.6-132		%Rec	1	9/5/2017 3:23:52 PM	33670

Lab ID: 1708H71-006
Client Sample ID: S-088210-37-082917-SP-TP-40-4'

Collection Date: 8/29/2017 4:30:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	110	30		mg/Kg	20	9/7/2017 9:56:17 PM	33760
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/5/2017 8:00:32 PM	33675
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/5/2017 8:00:32 PM	33675
Surr: DNOP	83.8	70-130		%Rec	1	9/5/2017 8:00:32 PM	33675
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/5/2017 3:47:36 PM	33670
Surr: BFB	90.6	54-150		%Rec	1	9/5/2017 3:47:36 PM	33670
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/5/2017 3:47:36 PM	33670
Toluene	ND	0.049		mg/Kg	1	9/5/2017 3:47:36 PM	33670
Ethylbenzene	ND	0.049		mg/Kg	1	9/5/2017 3:47:36 PM	33670
Xylenes, Total	ND	0.098		mg/Kg	1	9/5/2017 3:47:36 PM	33670
Surr: 4-Bromofluorobenzene	100	66.6-132		%Rec	1	9/5/2017 3:47:36 PM	33670

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708H71

11-Sep-17

Client: GHD

Project: Perdom BMP State No 1H

Sample ID	MB-33760	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	33760	RunNo:	45475					
Prep Date:	9/7/2017	Analysis Date:	9/7/2017	SeqNo:	1442638	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708H71

11-Sep-17

Client: GHD
Project: Perdom BMP State No 1H

Sample ID	LCS-33693		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 33693		RunNo: 45403					
Prep Date:	9/5/2017		Analysis Date: 9/5/2017		SeqNo: 1438552		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		99.3	70	130			

Sample ID	MB-33693		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 33693		RunNo: 45403					
Prep Date:	9/5/2017		Analysis Date: 9/5/2017		SeqNo: 1438553		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		108	70	130			

Sample ID	LCS-33675		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 33675		RunNo: 45404					
Prep Date:	9/1/2017		Analysis Date: 9/5/2017		SeqNo: 1438556		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.4	73.2	114			
Surr: DNOP	3.5		5.000		70.5	70	130			

Sample ID	MB-33675	SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS	Batch ID:	33675		RunNo:	45404				
Prep Date:	9/1/2017	Analysis Date:	9/5/2017		SeqNo:	1438557		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.5		10.00		75.3	70	130			

Sample ID	1708H71-001AMS		SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	S-088210-37-082917		Batch ID: 33675		RunNo: 45403					
Prep Date:	9/1/2017		Analysis Date: 9/5/2017		SeqNo: 1439035		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	49.95	5.457	87.7	55.8	122			
Surr: DNOP	5.1		4.995		103	70	130			

Sample ID	1708H71-001AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	S-088210-37-082917		Batch ID: 33675		RunNo: 45403					
Prep Date:	9/1/2017		Analysis Date: 9/5/2017		SeqNo: 1439036		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.4	46.95	5.457	92.7	55.8	122	0.614	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708H71

11-Sep-17

Client: GHD

Project: Perdom BMP State No 1H

Sample ID	1708H71-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	S-088210-37-082917	Batch ID:	33675	RunNo:	45403					
Prep Date:	9/1/2017	Analysis Date:	9/5/2017	SeqNo:	1439036	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		4.695		101	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708H71

11-Sep-17

Client: GHD
Project: Perdom BMP State No 1H

Sample ID MB-33682	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 33682			RunNo: 45408						
Prep Date: 9/1/2017	Analysis Date: 9/5/2017			SeqNo: 1439055			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	820		1000		82.4	54	150			

Sample ID LCS-33682	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 33682			RunNo: 45408						
Prep Date: 9/1/2017	Analysis Date: 9/5/2017			SeqNo: 1439056			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	910		1000		90.9	54	150			

Sample ID MB-33670	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 33670			RunNo: 45409						
Prep Date: 9/1/2017	Analysis Date: 9/5/2017			SeqNo: 1439100			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		89.0	54	150			

Sample ID LCS-33670	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 33670			RunNo: 45409						
Prep Date: 9/1/2017	Analysis Date: 9/5/2017			SeqNo: 1439101			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	76.4	125			
Surr: BFB	990		1000		99.0	54	150			

Sample ID 1708H71-002AMS	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: S-088210-37-082917	Batch ID: 33670			RunNo: 45409						
Prep Date: 9/1/2017	Analysis Date: 9/5/2017			SeqNo: 1439104			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.8	24.08	0	87.6	77.8	128			
Surr: BFB	950		963.4		98.5	54	150			

Sample ID 1708H71-002AMSD	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: S-088210-37-082917	Batch ID: 33670			RunNo: 45409						
Prep Date: 9/1/2017	Analysis Date: 9/5/2017			SeqNo: 1439105			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	4.7	23.50	0	70.9	77.8	128	23.6	20	RS
Surr: BFB	930		939.8		99.0	54	150	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708H71

11-Sep-17

Client: GHD
Project: Perdom BMP State No 1H

Sample ID MB-33682	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 33682			RunNo: 45408						
Prep Date: 9/1/2017	Analysis Date: 9/5/2017			SeqNo: 1439078			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.3		1.000		128	66.6	132			

Sample ID LCS-33682	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 33682			RunNo: 45408						
Prep Date: 9/1/2017	Analysis Date: 9/5/2017			SeqNo: 1439079			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.3		1.000		128	66.6	132			

Sample ID MB-33670	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 33670			RunNo: 45409						
Prep Date: 9/1/2017	Analysis Date: 9/5/2017			SeqNo: 1439126			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	66.6	132			

Sample ID LCS-33670	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 33670			RunNo: 45409						
Prep Date: 9/1/2017	Analysis Date: 9/5/2017			SeqNo: 1439127			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.6	80	120			
Toluene	0.93	0.050	1.000	0	92.6	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	66.6	132			

Sample ID 1708H71-001AMS	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: S-088210-37-082917	Batch ID: 33670			RunNo: 45409						
Prep Date: 9/1/2017	Analysis Date: 9/5/2017			SeqNo: 1439129			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.73	0.023	0.9242	0	79.4	80.9	132			S
Toluene	0.76	0.046	0.9242	0	82.4	79.8	136			
Ethylbenzene	0.78	0.046	0.9242	0	84.4	79.4	140			
Xylenes, Total	2.4	0.092	2.773	0	86.3	78.5	142			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708H71

11-Sep-17

Client: GHD

Project: Perdom BMP State No 1H

Sample ID	1708H71-001AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	S-088210-37-082917	Batch ID:	33670	RunNo:	45409					
Prep Date:	9/1/2017	Analysis Date:	9/5/2017	SeqNo:	1439129	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		0.9242		101	66.6	132			

Sample ID	1708H71-001AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	S-088210-37-082917	Batch ID:	33670	RunNo:	45409					
Prep Date:	9/1/2017	Analysis Date:	9/5/2017	SeqNo:	1439130	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.77	0.023	0.9217	0	83.4	80.9	132	4.67	20	
Toluene	0.80	0.046	0.9217	0	86.3	79.8	136	4.36	20	
Ethylbenzene	0.82	0.046	0.9217	0	88.5	79.4	140	4.39	20	
Xylenes, Total	2.5	0.092	2.765	0	89.0	78.5	142	2.77	20	
Surr: 4-Bromofluorobenzene	0.94		0.9217		102	66.6	132	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

Sample Log-In Check List

Client Name: GHD

Work Order Number: 1708H71

RcptNo: 1

Received By: Erin Melendrez 8/31/2017 9:45:00 AM

Completed By: Ashley Gallegos 8/31/2017 1:29:48 PM

Reviewed By: *RL* 8/31/17

UUG

Ag

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes			



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 14, 2017

Alan Brandon

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Perdomo BMP State 1H

OrderNo.: 1709201

Dear Alan Brandon:

Hall Environmental Analysis Laboratory received 5 sample(s) on 9/2/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical ReportLab Order: **1709201**Date Reported: **9/14/2017****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** GHD
Project: Perdomo BMP State 1H**Lab Order:** 1709201**Lab ID:** 1709201-001
Client Sample ID: S-088210-37-083117-SP-TP-42-20'**Collection Date:** 8/31/2017 3:30:00 PM**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	200	30		mg/Kg	20	9/13/2017 1:24:46 PM	33825
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	61	4.7		mg/Kg	1	9/8/2017 3:52:04 PM	33745
Surr: BFB	99.5	70-130		%Rec	1	9/8/2017 3:52:04 PM	33745
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	190	9.7		mg/Kg	1	9/8/2017 10:24:41 AM	33747
Motor Oil Range Organics (MRO)	87	48		mg/Kg	1	9/8/2017 10:24:41 AM	33747
Surr: DNOP	106	70-130		%Rec	1	9/8/2017 10:24:41 AM	33747
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.023		mg/Kg	1	9/8/2017 3:52:04 PM	33745
Toluene	0.099	0.047		mg/Kg	1	9/8/2017 3:52:04 PM	33745
Ethylbenzene	ND	0.047		mg/Kg	1	9/8/2017 3:52:04 PM	33745
Xylenes, Total	0.67	0.093		mg/Kg	1	9/8/2017 3:52:04 PM	33745
Surr: 1,2-Dichloroethane-d4	117	70-130		%Rec	1	9/8/2017 3:52:04 PM	33745
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	9/8/2017 3:52:04 PM	33745
Surr: Dibromofluoromethane	112	70-130		%Rec	1	9/8/2017 3:52:04 PM	33745
Surr: Toluene-d8	96.3	70-130		%Rec	1	9/8/2017 3:52:04 PM	33745

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical ReportLab Order: **1709201**Date Reported: **9/14/2017****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** GHD
Project: Perdomo BMP State 1H**Lab Order:** 1709201**Lab ID:** 1709201-002**Collection Date:** 8/31/2017 3:50:00 PM**Client Sample ID:** S-088210-37-083117-SP-Comp-1**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	110	30		mg/Kg	20	9/13/2017 1:37:10 PM	33825
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/8/2017 4:21:02 PM	33745
Surr: BFB	88.8	70-130		%Rec	1	9/8/2017 4:21:02 PM	33745
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	860	95		mg/Kg	10	9/8/2017 2:06:00 PM	33747
Motor Oil Range Organics (MRO)	830	480		mg/Kg	10	9/8/2017 2:06:00 PM	33747
Surr: DNOP	0	70-130	S	%Rec	10	9/8/2017 2:06:00 PM	33747
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	9/8/2017 4:21:02 PM	33745
Toluene	ND	0.048		mg/Kg	1	9/8/2017 4:21:02 PM	33745
Ethylbenzene	ND	0.048		mg/Kg	1	9/8/2017 4:21:02 PM	33745
Xylenes, Total	ND	0.095		mg/Kg	1	9/8/2017 4:21:02 PM	33745
Surr: 1,2-Dichloroethane-d4	128	70-130		%Rec	1	9/8/2017 4:21:02 PM	33745
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	1	9/8/2017 4:21:02 PM	33745
Surr: Dibromofluoromethane	125	70-130		%Rec	1	9/8/2017 4:21:02 PM	33745
Surr: Toluene-d8	95.0	70-130		%Rec	1	9/8/2017 4:21:02 PM	33745

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical ReportLab Order: **1709201**Date Reported: **9/14/2017****Hall Environmental Analysis Laboratory, Inc.**

CLIENT: GHD
Project: Perdomo BMP State 1H

Lab Order: 1709201**Lab ID:** 1709201-003**Collection Date:** 8/31/2017 3:55:00 PM**Client Sample ID:** S-088210-37-083117-SP-Comp-2**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	130	30		mg/Kg	20	9/13/2017 1:49:35 PM	33825
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	7.7	4.7		mg/Kg	1	9/8/2017 5:47:42 PM	33745
Surr: BFB	102	70-130		%Rec	1	9/8/2017 5:47:42 PM	33745
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	1900	100		mg/Kg	10	9/8/2017 2:28:16 PM	33747
Motor Oil Range Organics (MRO)	1500	510		mg/Kg	10	9/8/2017 2:28:16 PM	33747
Surr: DNOP	0	70-130	S	%Rec	10	9/8/2017 2:28:16 PM	33747
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	9/8/2017 5:47:42 PM	33745
Toluene	ND	0.047		mg/Kg	1	9/8/2017 5:47:42 PM	33745
Ethylbenzene	ND	0.047		mg/Kg	1	9/8/2017 5:47:42 PM	33745
Xylenes, Total	ND	0.094		mg/Kg	1	9/8/2017 5:47:42 PM	33745
Surr: 1,2-Dichloroethane-d4	123	70-130		%Rec	1	9/8/2017 5:47:42 PM	33745
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	9/8/2017 5:47:42 PM	33745
Surr: Dibromofluoromethane	122	70-130		%Rec	1	9/8/2017 5:47:42 PM	33745
Surr: Toluene-d8	96.9	70-130		%Rec	1	9/8/2017 5:47:42 PM	33745

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1709201

Date Reported: 9/14/2017

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** GHD
Project: Perdomo BMP State 1H**Lab Order:** 1709201**Lab ID:** 1709201-004**Collection Date:** 8/31/2017 4:00:00 PM**Client Sample ID:** S-088210-37-083117-SP-Comp-3**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	190	30		mg/Kg	20	9/13/2017 2:01:59 PM	33825
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/8/2017 6:16:29 PM	33745
Surr: BFB	91.5	70-130		%Rec	1	9/8/2017 6:16:29 PM	33745
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	1300	98		mg/Kg	10	9/8/2017 2:50:19 PM	33747
Motor Oil Range Organics (MRO)	1300	490		mg/Kg	10	9/8/2017 2:50:19 PM	33747
Surr: DNOP	0	70-130	S	%Rec	10	9/8/2017 2:50:19 PM	33747
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	9/8/2017 6:16:29 PM	33745
Toluene	ND	0.050		mg/Kg	1	9/8/2017 6:16:29 PM	33745
Ethylbenzene	ND	0.050		mg/Kg	1	9/8/2017 6:16:29 PM	33745
Xylenes, Total	ND	0.099		mg/Kg	1	9/8/2017 6:16:29 PM	33745
Surr: 1,2-Dichloroethane-d4	125	70-130		%Rec	1	9/8/2017 6:16:29 PM	33745
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	9/8/2017 6:16:29 PM	33745
Surr: Dibromofluoromethane	122	70-130		%Rec	1	9/8/2017 6:16:29 PM	33745
Surr: Toluene-d8	96.4	70-130		%Rec	1	9/8/2017 6:16:29 PM	33745

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical ReportLab Order: **1709201**Date Reported: **9/14/2017****Hall Environmental Analysis Laboratory, Inc.**

CLIENT: GHD
Project: Perdomo BMP State 1H

Lab Order: 1709201

Lab ID: 1709201-005
Client Sample ID: S-088210-37-083117-SP-TP-7-10'

Collection Date: 8/31/2017 4:05:00 PM**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	9/13/2017 2:14:24 PM	33825
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/8/2017 6:45:55 PM	33745
Surr: BFB	90.0	70-130		%Rec	1	9/8/2017 6:45:55 PM	33745
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	9/8/2017 1:43:54 PM	33747
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/8/2017 1:43:54 PM	33747
Surr: DNOP	113	70-130		%Rec	1	9/8/2017 1:43:54 PM	33747
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	9/8/2017 6:45:55 PM	33745
Toluene	ND	0.049		mg/Kg	1	9/8/2017 6:45:55 PM	33745
Ethylbenzene	ND	0.049		mg/Kg	1	9/8/2017 6:45:55 PM	33745
Xylenes, Total	ND	0.098		mg/Kg	1	9/8/2017 6:45:55 PM	33745
Surr: 1,2-Dichloroethane-d4	123	70-130		%Rec	1	9/8/2017 6:45:55 PM	33745
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	9/8/2017 6:45:55 PM	33745
Surr: Dibromofluoromethane	122	70-130		%Rec	1	9/8/2017 6:45:55 PM	33745
Surr: Toluene-d8	96.4	70-130		%Rec	1	9/8/2017 6:45:55 PM	33745

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1709201

14-Sep-17

Client: GHD

Project: Perdomo BMP State 1H

Sample ID	MB-33825		SampType: mblk		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 33825		RunNo: 45622					
Prep Date:	9/12/2017		Analysis Date: 9/13/2017		SeqNo: 1447246		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-33825		SampType: lcs		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 33825		RunNo: 45622					
Prep Date:	9/12/2017		Analysis Date: 9/13/2017		SeqNo: 1447247		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.6	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1709201

14-Sep-17

Client: GHD

Project: Perdomo BMP State 1H

Sample ID	MB-33747		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 33747		RunNo: 45495					
Prep Date:	9/7/2017		Analysis Date: 9/8/2017		SeqNo: 1442120		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.3	70	130			

Sample ID	1709201-001AMS		SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	S-088210-37-083117		Batch ID: 33747		RunNo: 45495					
Prep Date:	9/7/2017		Analysis Date: 9/8/2017		SeqNo: 1442270		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	560	10	50.71	187.8	728	55.8	122			S
Surr: DNOP	5.8		5.071		113	70	130			

Sample ID	LCS-33747		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 33747		RunNo: 45495					
Prep Date:	9/7/2017		Analysis Date: 9/8/2017		SeqNo: 1442271		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.6	73.2	114			
Surr: DNOP	4.5		5.000		89.7	70	130			

Sample ID	1709201-001AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	S-088210-37-083117		Batch ID: 33747		RunNo: 45495					
Prep Date:	9/7/2017		Analysis Date: 9/8/2017		SeqNo: 1442472		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	250	9.7	48.40	187.8	134	55.8	122	75.2	20	RS
Surr: DNOP	5.1		4.840		105	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1709201

14-Sep-17

Client: GHD

Project: Perdomo BMP State 1H

Sample ID	mb-33745		SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	PBS		Batch ID: 33745		RunNo: 45532					
Prep Date:	9/7/2017		Analysis Date: 9/8/2017		SeqNo: 1443300		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.65		0.5000		130	70	130			
Surr: 4-Bromofluorobenzene	0.42		0.5000		84.4	70	130			
Surr: Dibromofluoromethane	0.62		0.5000		124	70	130			
Surr: Toluene-d8	0.49		0.5000		97.2	70	130			

Sample ID	lcs-33745		SampType: LCS		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	LCSS		Batch ID: 33745		RunNo: 45532					
Prep Date:	9/7/2017		Analysis Date: 9/8/2017		SeqNo: 1443301		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	117	70	130			
Toluene	0.89	0.050	1.000	0	89.2	70	130			
Surr: 1,2-Dichloroethane-d4	0.62		0.5000		124	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.5000		88.4	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		112	70	130			
Surr: Toluene-d8	0.48		0.5000		95.2	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1709201

14-Sep-17

Client: GHD

Project: Perdomo BMP State 1H

Sample ID	mb-33745		SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID:	PBS		Batch ID: 33745		RunNo: 45532					
Prep Date:	9/7/2017		Analysis Date: 9/8/2017		SeqNo: 1443325		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	430		500.0		86.2	70	130			

Sample ID	lcs-33745		SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID:	LCSS		Batch ID: 33745		RunNo: 45532					
Prep Date:	9/7/2017		Analysis Date: 9/8/2017		SeqNo: 1443326		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.5	70	130			
Surr: BFB	450		500.0		90.0	70	130			

Sample ID	1709201-002ams		SampType: MS		TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID:	S-088210-37-083117		Batch ID: 33745		RunNo: 45532					
Prep Date:	9/7/2017		Analysis Date: 9/8/2017		SeqNo: 1443329		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	4.8	24.20	0.9542	124	63.2	128			
Surr: BFB	430		484.0		89.5	70	130			

Sample ID	1709201-002amsd		SampType: MSD		TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID:	S-088210-37-083117		Batch ID: 33745		RunNo: 45532					
Prep Date:	9/7/2017		Analysis Date: 9/8/2017		SeqNo: 1443330		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.6	23.17	0.9542	123	63.2	128	5.24	20	
Surr: BFB	430		463.4		92.2	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

Sample Log-In Check List

Client Name: GHD

Work Order Number: 1709201

RcptNo: 1

Received By: Andy Freeman

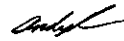

9/2/2017 12:35:00 PM

Completed By: Ashley Gallegos

9/6/2017 1:56:08 PM

Reviewed By: ENH

9/6/17

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
 6. Sample(s) in proper container(s)? Yes ☒ No ☐
 7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
 9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
 11. Were any sample containers received broken? Yes ☐ No ☒
 12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
 13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 14. Is it clear what analyses were requested? Yes ☒ No ☐
 15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐
- # of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.7	Good	Yes			

Chain-of-Custody Record

Client: GTHD - Albuquerque
 Mailing Address: 6121 Indian School Rd NE
FE 200, Albuquerque NM 87110
 Phone #: 505-884-0672
 Email or Fax#: Alan.Brandon@jgd.com
 QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
 Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Date	Time	Matrix	Sample Request ID
8/31/17	1530	Soil	S-088210-37-083117SP-1P-4290
✓	1550	✓	S-088210-37-083117SP-Comp-1
✓	1555	✓	S-088210-37-083117SP-Comp-2
✓	1600	✓	S-088210-37-083117SP-Comp-3
✓	1615	✓	S-088210-37-083117SP-Comp-4
✓	1605	✓	S-088210-37-083117SP-1P-710

Date: 8/31/17 Time: 18:15
 Relinquished by: Steven Prof
 Date: _____ Time: _____
 Relinquished by: _____

Turn-Around Time: ☒ Standard ☐ Rush
 Project Name: Perdono BMP State #1H
 Project #: 088210/37
 Project Manager: Alan Brandon
 Sampler: Steve Perez
 On Job: ☒ Yes ☐ No
 Sample Temperature: 3.7°C

Container Type and #	Preservative Type	HEAL No.
4oz glass-1	ICE	1709201
✓	✓	-001
✓	✓	-002
✓	✓	-003
✓	✓	-004
✓	✓	-005

Received by: Steven Prof Date: 9/2/17 Time: 1235
 Received by: _____ Date: _____ Time: _____



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEx + MTBE + TMB's (8021)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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Remarks:



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 14, 2017

Alan Brandon

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Perdoma BMP State 1H

OrderNo.: 1709315

Dear Alan Brandon:

Hall Environmental Analysis Laboratory received 14 sample(s) on 9/7/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 1709315

Date Reported: 9/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Perdoma BMP State 1H

Lab Order: 1709315

Lab ID: 1709315-001

Collection Date: 9/5/2017 4:25:00 PM

Client Sample ID: S-088210-37-090517-SP-TP-3-10'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/12/2017 3:01:00 PM	33802
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/12/2017 3:01:00 PM	33802
Surr: DNOP	97.4	70-130		%Rec	1	9/12/2017 3:01:00 PM	33802
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/12/2017 1:49:54 PM	33798
Surr: BFB	95.2	54-150		%Rec	1	9/12/2017 1:49:54 PM	33798
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/12/2017 1:49:54 PM	33798
Toluene	ND	0.047		mg/Kg	1	9/12/2017 1:49:54 PM	33798
Ethylbenzene	ND	0.047		mg/Kg	1	9/12/2017 1:49:54 PM	33798
Xylenes, Total	ND	0.094		mg/Kg	1	9/12/2017 1:49:54 PM	33798
Surr: 4-Bromofluorobenzene	103	66.6-132		%Rec	1	9/12/2017 1:49:54 PM	33798

Lab ID: 1709315-002

Collection Date: 9/5/2017 4:30:00 PM

Client Sample ID: S-088210-37-090517-SP-TP-6-10'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/12/2017 4:16:28 PM	33802
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/12/2017 4:16:28 PM	33802
Surr: DNOP	110	70-130		%Rec	1	9/12/2017 4:16:28 PM	33802
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/12/2017 3:00:16 PM	33798
Surr: BFB	99.8	54-150		%Rec	1	9/12/2017 3:00:16 PM	33798
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	9/12/2017 3:00:16 PM	33798
Toluene	ND	0.046		mg/Kg	1	9/12/2017 3:00:16 PM	33798
Ethylbenzene	ND	0.046		mg/Kg	1	9/12/2017 3:00:16 PM	33798
Xylenes, Total	ND	0.092		mg/Kg	1	9/12/2017 3:00:16 PM	33798
Surr: 4-Bromofluorobenzene	109	66.6-132		%Rec	1	9/12/2017 3:00:16 PM	33798

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1709315

Date Reported: 9/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Perdoma BMP State 1H

Lab Order: 1709315

Lab ID: 1709315-003
Client Sample ID: S-088210-37-090517-SP-TP-9-10'

Collection Date: 9/5/2017 4:35:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/12/2017 4:41:42 PM	33802
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/12/2017 4:41:42 PM	33802
Surr: DNOP	92.6	70-130		%Rec	1	9/12/2017 4:41:42 PM	33802
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/12/2017 4:10:55 PM	33798
Surr: BFB	103	54-150		%Rec	1	9/12/2017 4:10:55 PM	33798
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/12/2017 4:10:55 PM	33798
Toluene	ND	0.047		mg/Kg	1	9/12/2017 4:10:55 PM	33798
Ethylbenzene	ND	0.047		mg/Kg	1	9/12/2017 4:10:55 PM	33798
Xylenes, Total	ND	0.094		mg/Kg	1	9/12/2017 4:10:55 PM	33798
Surr: 4-Bromofluorobenzene	111	66.6-132		%Rec	1	9/12/2017 4:10:55 PM	33798

Lab ID: 1709315-004
Client Sample ID: S-088210-37-090517-SP-TP-43-10'

Collection Date: 9/5/2017 4:40:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/12/2017 5:06:44 PM	33802
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/12/2017 5:06:44 PM	33802
Surr: DNOP	92.3	70-130		%Rec	1	9/12/2017 5:06:44 PM	33802
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/12/2017 4:34:29 PM	33798
Surr: BFB	102	54-150		%Rec	1	9/12/2017 4:34:29 PM	33798
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	9/12/2017 4:34:29 PM	33798
Toluene	ND	0.046		mg/Kg	1	9/12/2017 4:34:29 PM	33798
Ethylbenzene	ND	0.046		mg/Kg	1	9/12/2017 4:34:29 PM	33798
Xylenes, Total	ND	0.092		mg/Kg	1	9/12/2017 4:34:29 PM	33798
Surr: 4-Bromofluorobenzene	109	66.6-132		%Rec	1	9/12/2017 4:34:29 PM	33798

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1709315

Date Reported: 9/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Perdoma BMP State 1H

Lab Order: 1709315

Lab ID: 1709315-005 **Collection Date:** 9/5/2017 4:45:00 PM

Client Sample ID: S-088210-37-090517-SP-TP-44-10' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/12/2017 5:32:02 PM	33802
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/12/2017 5:32:02 PM	33802
Surr: DNOP	91.8	70-130		%Rec	1	9/12/2017 5:32:02 PM	33802
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/12/2017 4:57:59 PM	33798
Surr: BFB	101	54-150		%Rec	1	9/12/2017 4:57:59 PM	33798
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/12/2017 4:57:59 PM	33798
Toluene	ND	0.047		mg/Kg	1	9/12/2017 4:57:59 PM	33798
Ethylbenzene	ND	0.047		mg/Kg	1	9/12/2017 4:57:59 PM	33798
Xylenes, Total	ND	0.095		mg/Kg	1	9/12/2017 4:57:59 PM	33798
Surr: 4-Bromofluorobenzene	105	66.6-132		%Rec	1	9/12/2017 4:57:59 PM	33798

Lab ID: 1709315-006 **Collection Date:** 9/5/2017 4:50:00 PM

Client Sample ID: S-088210-37-090517-SP-TP-8-10' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/12/2017 5:57:14 PM	33802
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/12/2017 5:57:14 PM	33802
Surr: DNOP	92.1	70-130		%Rec	1	9/12/2017 5:57:14 PM	33802
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/12/2017 5:21:27 PM	33798
Surr: BFB	100	54-150		%Rec	1	9/12/2017 5:21:27 PM	33798
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/12/2017 5:21:27 PM	33798
Toluene	ND	0.048		mg/Kg	1	9/12/2017 5:21:27 PM	33798
Ethylbenzene	ND	0.048		mg/Kg	1	9/12/2017 5:21:27 PM	33798
Xylenes, Total	ND	0.096		mg/Kg	1	9/12/2017 5:21:27 PM	33798
Surr: 4-Bromofluorobenzene	107	66.6-132		%Rec	1	9/12/2017 5:21:27 PM	33798

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1709315

Date Reported: 9/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Perdoma BMP State 1H

Lab Order: 1709315

Lab ID: 1709315-007

Collection Date: 9/5/2017 4:55:00 PM

Client Sample ID: S-088210-37-090517-SP-TP-5-10'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/12/2017 6:22:38 PM	33802
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/12/2017 6:22:38 PM	33802
Surr: DNOP	101	70-130		%Rec	1	9/12/2017 6:22:38 PM	33802
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/12/2017 5:44:55 PM	33798
Surr: BFB	101	54-150		%Rec	1	9/12/2017 5:44:55 PM	33798
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/12/2017 5:44:55 PM	33798
Toluene	ND	0.049		mg/Kg	1	9/12/2017 5:44:55 PM	33798
Ethylbenzene	ND	0.049		mg/Kg	1	9/12/2017 5:44:55 PM	33798
Xylenes, Total	ND	0.097		mg/Kg	1	9/12/2017 5:44:55 PM	33798
Surr: 4-Bromofluorobenzene	107	66.6-132		%Rec	1	9/12/2017 5:44:55 PM	33798

Lab ID: 1709315-008

Collection Date: 9/5/2017 5:00:00 PM

Client Sample ID: S-088210-37-090517-SP-TP-2-10'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/12/2017 6:47:52 PM	33802
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/12/2017 6:47:52 PM	33802
Surr: DNOP	96.2	70-130		%Rec	1	9/12/2017 6:47:52 PM	33802
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/12/2017 9:15:38 PM	33798
Surr: BFB	94.6	54-150		%Rec	1	9/12/2017 9:15:38 PM	33798
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	9/12/2017 9:15:38 PM	33798
Toluene	ND	0.046		mg/Kg	1	9/12/2017 9:15:38 PM	33798
Ethylbenzene	ND	0.046		mg/Kg	1	9/12/2017 9:15:38 PM	33798
Xylenes, Total	ND	0.092		mg/Kg	1	9/12/2017 9:15:38 PM	33798
Surr: 4-Bromofluorobenzene	103	66.6-132		%Rec	1	9/12/2017 9:15:38 PM	33798

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1709315

Date Reported: 9/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Perdoma BMP State 1H

Lab Order: 1709315

Lab ID: 1709315-009
Client Sample ID: S-088210-37-090517-SP-TP-47-4'

Collection Date: 9/5/2017 5:05:00 PM

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/12/2017 7:13:10 PM	33802
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/12/2017 7:13:10 PM	33802
Surr: DNOP	99.7	70-130		%Rec	1	9/12/2017 7:13:10 PM	33802
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/12/2017 9:38:59 PM	33798
Surr: BFB	98.5	54-150		%Rec	1	9/12/2017 9:38:59 PM	33798
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/12/2017 9:38:59 PM	33798
Toluene	ND	0.047		mg/Kg	1	9/12/2017 9:38:59 PM	33798
Ethylbenzene	ND	0.047		mg/Kg	1	9/12/2017 9:38:59 PM	33798
Xylenes, Total	ND	0.094		mg/Kg	1	9/12/2017 9:38:59 PM	33798
Surr: 4-Bromofluorobenzene	106	66.6-132		%Rec	1	9/12/2017 9:38:59 PM	33798

Lab ID: 1709315-010
Client Sample ID: S-088210-37-090517-SP-TP-46-4'

Collection Date: 9/5/2017 5:10:00 PM

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/12/2017 7:38:20 PM	33802
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/12/2017 7:38:20 PM	33802
Surr: DNOP	94.2	70-130		%Rec	1	9/12/2017 7:38:20 PM	33802
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/12/2017 10:02:28 PM	33798
Surr: BFB	96.9	54-150		%Rec	1	9/12/2017 10:02:28 PM	33798
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/12/2017 10:02:28 PM	33798
Toluene	ND	0.049		mg/Kg	1	9/12/2017 10:02:28 PM	33798
Ethylbenzene	ND	0.049		mg/Kg	1	9/12/2017 10:02:28 PM	33798
Xylenes, Total	ND	0.097		mg/Kg	1	9/12/2017 10:02:28 PM	33798
Surr: 4-Bromofluorobenzene	105	66.6-132		%Rec	1	9/12/2017 10:02:28 PM	33798

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1709315

Date Reported: 9/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Perdoma BMP State 1H

Lab Order: 1709315

Lab ID: 1709315-011 **Collection Date:** 9/5/2017 5:15:00 PM

Client Sample ID: S-088210-37-090517-SP-TP-45-20' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	110	9.5		mg/Kg	1	9/12/2017 8:03:35 PM	33802
Motor Oil Range Organics (MRO)	51	48		mg/Kg	1	9/12/2017 8:03:35 PM	33802
Surr: DNOP	105	70-130		%Rec	1	9/12/2017 8:03:35 PM	33802
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	8.6	4.6		mg/Kg	1	9/12/2017 10:25:48 PM	33798
Surr: BFB	183	54-150	S	%Rec	1	9/12/2017 10:25:48 PM	33798
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	9/12/2017 10:25:48 PM	33798
Toluene	ND	0.046		mg/Kg	1	9/12/2017 10:25:48 PM	33798
Ethylbenzene	ND	0.046		mg/Kg	1	9/12/2017 10:25:48 PM	33798
Xylenes, Total	ND	0.093		mg/Kg	1	9/12/2017 10:25:48 PM	33798
Surr: 4-Bromofluorobenzene	110	66.6-132		%Rec	1	9/12/2017 10:25:48 PM	33798

Lab ID: 1709315-012 **Collection Date:** 9/5/2017 5:20:00 PM

Client Sample ID: S-088210-37-090517-SP-TP-48-4' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/12/2017 8:28:35 PM	33802
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/12/2017 8:28:35 PM	33802
Surr: DNOP	98.9	70-130		%Rec	1	9/12/2017 8:28:35 PM	33802
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/12/2017 10:49:08 PM	33798
Surr: BFB	98.1	54-150		%Rec	1	9/12/2017 10:49:08 PM	33798
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	9/12/2017 10:49:08 PM	33798
Toluene	ND	0.046		mg/Kg	1	9/12/2017 10:49:08 PM	33798
Ethylbenzene	ND	0.046		mg/Kg	1	9/12/2017 10:49:08 PM	33798
Xylenes, Total	ND	0.093		mg/Kg	1	9/12/2017 10:49:08 PM	33798
Surr: 4-Bromofluorobenzene	107	66.6-132		%Rec	1	9/12/2017 10:49:08 PM	33798

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1709315

Date Reported: 9/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Perdoma BMP State 1H

Lab Order: 1709315

Lab ID: 1709315-013
Client Sample ID: S-088210-37-090617-SP-TP-50-4'

Collection Date: 9/6/2017 5:24:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	13	9.8		mg/Kg	1	9/12/2017 8:53:42 PM	33802
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/12/2017 8:53:42 PM	33802
Surr: DNOP	97.2	70-130		%Rec	1	9/12/2017 8:53:42 PM	33802
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/12/2017 11:12:27 PM	33798
Surr: BFB	98.2	54-150		%Rec	1	9/12/2017 11:12:27 PM	33798
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/12/2017 11:12:27 PM	33798
Toluene	ND	0.050		mg/Kg	1	9/12/2017 11:12:27 PM	33798
Ethylbenzene	ND	0.050		mg/Kg	1	9/12/2017 11:12:27 PM	33798
Xylenes, Total	ND	0.099		mg/Kg	1	9/12/2017 11:12:27 PM	33798
Surr: 4-Bromofluorobenzene	107	66.6-132		%Rec	1	9/12/2017 11:12:27 PM	33798

Lab ID: 1709315-014
Client Sample ID: S-088210-37-090617-SP-TP-21-4'

Collection Date: 9/6/2017 5:28:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/12/2017 9:18:42 PM	33802
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/12/2017 9:18:42 PM	33802
Surr: DNOP	93.6	70-130		%Rec	1	9/12/2017 9:18:42 PM	33802
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/12/2017 11:35:52 PM	33798
Surr: BFB	98.9	54-150		%Rec	1	9/12/2017 11:35:52 PM	33798
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/12/2017 11:35:52 PM	33798
Toluene	ND	0.047		mg/Kg	1	9/12/2017 11:35:52 PM	33798
Ethylbenzene	ND	0.047		mg/Kg	1	9/12/2017 11:35:52 PM	33798
Xylenes, Total	ND	0.095		mg/Kg	1	9/12/2017 11:35:52 PM	33798
Surr: 4-Bromofluorobenzene	109	66.6-132		%Rec	1	9/12/2017 11:35:52 PM	33798

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1709315

14-Sep-17

Client: GHD

Project: Perdona BMP State 1H

Sample ID	MB-33802		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 33802		RunNo: 45556					
Prep Date:	9/11/2017		Analysis Date: 9/12/2017		SeqNo: 1444513		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.8	70	130			

Sample ID	LCS-33802		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 33802		RunNo: 45556					
Prep Date:	9/11/2017		Analysis Date: 9/12/2017		SeqNo: 1444741		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.7	73.2	114			
Surr: DNOP	4.6		5.000		91.9	70	130			

Sample ID	1709315-001AMS		SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	S-088210-37-090517		Batch ID: 33802		RunNo: 45556					
Prep Date:	9/11/2017		Analysis Date: 9/12/2017		SeqNo: 1445872		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.1	45.70	3.334	90.3	55.8	122			
Surr: DNOP	4.3		4.570		94.7	70	130			

Sample ID	1709315-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	S-088210-37-090517		Batch ID:	33802		RunNo:	45556				
Prep Date:	9/11/2017		Analysis Date:	9/12/2017		SeqNo:	1445873		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	49	9.8	49.12	3.334	92.6	55.8	122	9.03	20		
Surr: DNOP	4.6		4.912		94.5	70	130	0	0		

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1709315

14-Sep-17

Client: GHD

Project: Perdona BMP State 1H

Sample ID	MB-33798		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 33798		RunNo: 45568					
Prep Date:	9/11/2017		Analysis Date: 9/12/2017		SeqNo: 1445343		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		94.1	54	150			

Sample ID	LCS-33798		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 33798		RunNo: 45568					
Prep Date:	9/11/2017		Analysis Date: 9/12/2017		SeqNo: 1445344		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	76.4	125			
Surr: BFB	1100		1000		106	54	150			

Sample ID	1709315-002AMS		SampType: MS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	S-088210-37-090517		Batch ID: 33798		RunNo: 45568					
Prep Date:	9/11/2017		Analysis Date: 9/12/2017		SeqNo: 1445347		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	4.7	23.50	0	138	77.8	128			S
Surr: BFB	1000		939.8		112	54	150			

Sample ID	1709315-002AMSD		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID:	S-088210-37-090517		Batch ID: 33798		RunNo: 45568						
Prep Date:	9/11/2017		Analysis Date: 9/12/2017		SeqNo: 1445348		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	31	4.7	23.41	0	134	77.8	128	3.16	20	S	
Surr: BFB	1100		936.3		114	54	150	0	0		

Sample ID	MB-33771		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 33771		RunNo: 45568					
Prep Date:	9/8/2017		Analysis Date: 9/12/2017		SeqNo: 1445361		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	980		1000		98.4	54	150			

Sample ID	LCS-33771		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 33771		RunNo: 45568					
Prep Date:	9/8/2017		Analysis Date: 9/12/2017		SeqNo: 1445362		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		107	54	150			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1709315

14-Sep-17

Client: GHD

Project: Perdoma BMP State 1H

Sample ID	MB-33798		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	33798		RunNo:	45568			
Prep Date:	9/11/2017		Analysis Date:	9/12/2017		SeqNo:	1445377		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	66.6	132			

Sample ID	LCS-33798		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	33798		RunNo:	45568			
Prep Date:	9/11/2017		Analysis Date:	9/12/2017		SeqNo:	1445378		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	80	120			
Toluene	0.98	0.050	1.000	0	97.8	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	66.6	132			

Sample ID	1709315-001AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	S-088210-37-090517		Batch ID:	33798		RunNo:	45568			
Prep Date:	9/11/2017		Analysis Date:	9/12/2017		SeqNo:	1445380		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.024	0.9775	0	121	80.9	132			
Toluene	1.2	0.049	0.9775	0	120	79.8	136			
Ethylbenzene	1.2	0.049	0.9775	0	126	79.4	140			
Xylenes, Total	3.8	0.098	2.933	0	128	78.5	142			
Surr: 4-Bromofluorobenzene	1.0		0.9775		105	66.6	132			

Sample ID	1709315-001AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	S-088210-37-090517		Batch ID:	33798		RunNo:	45568			
Prep Date:	9/11/2017		Analysis Date:	9/12/2017		SeqNo:	1445381		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.024	0.9425	0	130	80.9	132	3.20	20	
Toluene	1.2	0.047	0.9425	0	128	79.8	136	2.78	20	
Ethylbenzene	1.3	0.047	0.9425	0	134	79.4	140	2.91	20	
Xylenes, Total	3.8	0.094	2.828	0	136	78.5	142	2.06	20	
Surr: 4-Bromofluorobenzene	1.0		0.9425		109	66.6	132	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1709315

14-Sep-17

Client: GHD

Project: Perdoma BMP State 1H

Sample ID	MB-33771		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 33771		RunNo: 45568					
Prep Date:	9/8/2017		Analysis Date: 9/12/2017		SeqNo: 1445395		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		107	66.6	132			

Sample ID	LCS-33771			SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS			Batch ID:	33771		RunNo:	45568			
Prep Date:	9/8/2017			Analysis Date:	9/12/2017		SeqNo:	1445396		Units:	%Rec
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	1.0		1.000		104	66.6	132				

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

Sample Log-In Check List

Client Name: GHD

Work Order Number: 1709315

RcptNo: 1

Received By: Isaiah Ortiz

9/7/2017 9:55:00 AM

IO

Completed By: Ashley Gallegos

9/7/2017 11:08:44 AM

AG

Reviewed By: *SRE 09/11/17*

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			

Chain-of-Custody Record			
Client: <u>CTD-Albuquerque</u>			
Mailing Address: <u>On File</u>			
Phone #: <u>505-884-0677</u>			
email or Fax#: <u>Alan.Brandon@qud.com</u>			
QA/QC Package: <input type="checkbox"/> Level 4 (Full Validation)			
<input type="checkbox"/> Standard <input type="checkbox"/> NELAP <input type="checkbox"/> Other _____			
<input type="checkbox"/> EDD (Type) _____			
Date	Time	Matrix	Sample Request ID
5 per AB			
9/17	1625	Soil	5088210-37-090517SP-TP-3-10
	1630		5088210-37-090517SP-TP-6-10
	1635		5088210-37-090517SP-TP-9-10
	1640		5088210-37-090517SP-TP-43-10
	1645		5088210-37-090517SP-TP-44-10
	1650		5088210-37-090517SP-TP-8-10
	1655		5088210-37-090517SP-TP-5-10
	1700		5088210-37-090517SP-TP-2-10
	1705		5088210-37-090517SP-TP-47-10
	1710		5088210-37-090517SP-TP-46-10
	1715		5088210-37-090517SP-TP-45-20
	1720		5088210-37-090517SP-TP-48-10
Date	Time	Relinquished by:	Relinquished by:
9/17	1110	Alan Brandon	Alan Brandon
9/17	1900	Alan Brandon	Alan Brandon

Analysis Request	
BTEX + MTBE + TMB's (8021)	
BTEX + MIBT + TPH (Gas only)	
TPH 8015B (GRO / DRO / MRO)	
TPH (Method 418.1)	
EDB (Method 504.1)	
PAH's (8310 or 8270 SIMS)	
RCRA 8 Metals	
Anions (F ⁻ , Cl ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ⁻ , SO ₄ ⁻)	
8081 Pesticides / 8082 PCB's	
8260B (VOA)	
8270 (Semi-VOA)	
Air Bubbles (Y or N)	

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 29, 2017

Bernie Bockisch

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Perdomo

OrderNo.: 1709926

Dear Bernie Bockisch:

Hall Environmental Analysis Laboratory received 3 sample(s) on 9/16/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 1709926

Date Reported: 9/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Perdomo

Lab Order: 1709926

Lab ID: 1709926-001

Collection Date: 9/14/2017 12:10:00 PM

Client Sample ID: S-088210-37-091417-MG-MW-1-25

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	150	30		mg/Kg	20	9/26/2017 11:54:11 AM	34063
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/28/2017 9:48:31 AM	34111
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/28/2017 9:48:31 AM	34111
Surr: DNOP	97.2	70-130		%Rec	1	9/28/2017 9:48:31 AM	34111
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/28/2017 9:50:04 AM	34110
Surr: BFB	107	54-150		%Rec	1	9/28/2017 9:50:04 AM	34110
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.091		mg/Kg	1	9/28/2017 9:50:04 AM	34110
Benzene	ND	0.023		mg/Kg	1	9/28/2017 9:50:04 AM	34110
Toluene	ND	0.046		mg/Kg	1	9/28/2017 9:50:04 AM	34110
Ethylbenzene	ND	0.046		mg/Kg	1	9/28/2017 9:50:04 AM	34110
Xylenes, Total	ND	0.091		mg/Kg	1	9/28/2017 9:50:04 AM	34110
Surr: 4-Bromofluorobenzene	115	66.6-132		%Rec	1	9/28/2017 9:50:04 AM	34110

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1709926

Date Reported: 9/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Perdomo

Lab Order: 1709926

Lab ID: 1709926-002

Collection Date: 9/14/2017 12:15:00 PM

Client Sample ID: S-088210-37-091417-MG-MW-1-30

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	150	30		mg/Kg	20	9/26/2017 12:31:24 PM	34063
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/28/2017 10:10:36 AM	34111
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/28/2017 10:10:36 AM	34111
Surr: DNOP	94.7	70-130		%Rec	1	9/28/2017 10:10:36 AM	34111
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/28/2017 10:37:19 AM	34110
Surr: BFB	114	54-150		%Rec	1	9/28/2017 10:37:19 AM	34110
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.096		mg/Kg	1	9/28/2017 10:37:19 AM	34110
Benzene	ND	0.024		mg/Kg	1	9/28/2017 10:37:19 AM	34110
Toluene	ND	0.048		mg/Kg	1	9/28/2017 10:37:19 AM	34110
Ethylbenzene	ND	0.048		mg/Kg	1	9/28/2017 10:37:19 AM	34110
Xylenes, Total	ND	0.096		mg/Kg	1	9/28/2017 10:37:19 AM	34110
Surr: 4-Bromofluorobenzene	121	66.6-132		%Rec	1	9/28/2017 10:37:19 AM	34110

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1709926

Date Reported: 9/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Perdomo

Lab Order: 1709926

Lab ID: 1709926-003

Collection Date: 9/14/2017 12:20:00 PM

Client Sample ID: S-088210-37-091417-MG-MW-1-35

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	130	30		mg/Kg	20	9/26/2017 1:08:38 PM	34063
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/28/2017 10:32:36 AM	34111
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/28/2017 10:32:36 AM	34111
Surr: DNOP	99.2	70-130		%Rec	1	9/28/2017 10:32:36 AM	34111
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/28/2017 11:00:58 AM	34110
Surr: BFB	112	54-150		%Rec	1	9/28/2017 11:00:58 AM	34110
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.095		mg/Kg	1	9/28/2017 11:00:58 AM	34110
Benzene	ND	0.024		mg/Kg	1	9/28/2017 11:00:58 AM	34110
Toluene	ND	0.048		mg/Kg	1	9/28/2017 11:00:58 AM	34110
Ethylbenzene	ND	0.048		mg/Kg	1	9/28/2017 11:00:58 AM	34110
Xylenes, Total	ND	0.095		mg/Kg	1	9/28/2017 11:00:58 AM	34110
Surr: 4-Bromofluorobenzene	122	66.6-132		%Rec	1	9/28/2017 11:00:58 AM	34110

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1709926

29-Sep-17

Client: GHD
Project: Perdomo

Sample ID	MB-34063		SampType: mblk		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 34063		RunNo: 45881					
Prep Date:	9/25/2017		Analysis Date: 9/26/2017		SeqNo: 1459275		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-34063		SampType: lcs		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 34063		RunNo: 45881					
Prep Date:	9/25/2017		Analysis Date: 9/26/2017		SeqNo: 1459276		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.2	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1709926

29-Sep-17

Client: GHD
Project: Perdomo

Sample ID	LCS-34111		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 34111		RunNo: 45950					
Prep Date:	9/27/2017		Analysis Date: 9/28/2017		SeqNo: 1460547		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.4	73.2	114			
Surr: DNOP	4.6		5.000		91.7	70	130			

Sample ID	MB-34111		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 34111		RunNo: 45950					
Prep Date:	9/27/2017		Analysis Date: 9/28/2017		SeqNo: 1460548		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.0	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1709926

29-Sep-17

Client: GHD
Project: Perdomo

Sample ID	MB-34110		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 34110		RunNo: 45958					
Prep Date:	9/27/2017		Analysis Date: 9/28/2017		SeqNo: 1461508		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		88.0	54	150			

Sample ID	LCS-34110		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 34110		RunNo: 45958					
Prep Date:	9/27/2017		Analysis Date: 9/28/2017		SeqNo: 1461509		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	120	76.4	125			
Surr: BFB	1000		1000		102	54	150			

Sample ID	1709926-002AMS		SampType: MS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	S-088210-37-091417		Batch ID: 34110		RunNo: 45958					
Prep Date:	9/27/2017		Analysis Date: 9/28/2017		SeqNo: 1461517		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.7	23.52	0	128	77.8	128			SH
Surr: BFB	970		940.7		103	54	150			H

Sample ID	1709926-002AMSD		SampType:	MSD		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	S-088210-37-091417		Batch ID:	34110		RunNo:	45958				
Prep Date:	9/27/2017		Analysis Date:	9/28/2017		SeqNo:	1461518		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	31	4.7	23.52	0	132	77.8	128	3.19	20	SH	
Surr: BFB	960		940.7		102	54	150	0	0	H	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1709926

29-Sep-17

Client: GHD
Project: Perdomo

Sample ID MB-34110	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 34110		RunNo: 45958							
Prep Date: 9/27/2017	Analysis Date: 9/28/2017		SeqNo: 1461547		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	66.6	132			

Sample ID LCS-34110	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 34110		RunNo: 45958							
Prep Date: 9/27/2017	Analysis Date: 9/28/2017		SeqNo: 1461559		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.96	0.10	1.000	0	96.5	66.5	120			
Benzene	1.1	0.025	1.000	0	106	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	0.050	1.000	0	109	80	120			
Xylenes, Total	3.3	0.10	3.000	0	111	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	66.6	132			

Sample ID 1709926-001AMS	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: S-088210-37-091417	Batch ID: 34110		RunNo: 45958							
Prep Date: 9/27/2017	Analysis Date: 9/28/2017		SeqNo: 1461574		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.97	0.098	0.9814	0	98.7	72.5	138			H
Benzene	1.1	0.025	0.9814	0	111	80.9	132			H
Toluene	1.1	0.049	0.9814	0	111	79.8	136			H
Ethylbenzene	1.1	0.049	0.9814	0	116	79.4	140			H
Xylenes, Total	3.5	0.098	2.944	0	117	78.5	142			H
Surr: 4-Bromofluorobenzene	1.0		0.9814		104	66.6	132			H

Sample ID 1709926-001AMSD	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: S-088210-37-091417	Batch ID: 34110		RunNo: 45958							
Prep Date: 9/27/2017	Analysis Date: 9/28/2017		SeqNo: 1461575		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.96	0.10	1.000	0	96.0	72.5	138	0.870	20	H
Benzene	1.1	0.025	1.000	0	107	80.9	132	1.61	20	H
Toluene	1.1	0.050	1.000	0	107	79.8	136	1.81	20	H
Ethylbenzene	1.1	0.050	1.000	0	112	79.4	140	1.66	20	H

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1709926

29-Sep-17

Client: GHD
Project: Perdomo

Sample ID	1709926-001AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	S-088210-37-091417	Batch ID:	34110	RunNo:	45958					
Prep Date:	9/27/2017	Analysis Date:	9/28/2017	SeqNo:	1461575	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Total	3.4	0.10	3.000	0	113	78.5	142	2.09	20	H
Surr: 4-Bromofluorobenzene	1.1		1.000		106	66.6	132	0	0	H

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: GHD

Work Order Number: 1709926

RcptNo: 1

Received By: John Caldwell

9/16/2017 8:40:00 AM

John Caldwell

Completed By: Sophia Campuzano

9/18/2017 12:50:08 PM

Sophia Campuzano

Reviewed By:

[Signature]

9/18/17

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐
- # of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.9	Good	Yes			

Appendix C

Waste Manifests

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:

EOG Resources Inc. 5509 Champions Dr. Midland TX, 79706

2. Originating Site:

Perdomo BMP State Com #1H API#30-015-36499

3. Location of Material (Street Address, City, State or ULSTR):

32.20029, -104.15024

4. Source and Description of Waste:

Soil impacted with produced water and/or crude oil

Estimated Volume 1000+ yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Zane Kurtz EOG, representative or authorized agent for EOG Resources Inc. do hereby
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988
regulatory determination, the above described waste is: (Check the appropriate classification)

RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-
exempt waste. Operator Use Only: Waste Acceptance Frequency: Monthly Weekly Per Load

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by
characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261,
subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check
the appropriate items)

MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, _____, representative for _____ do hereby certify that
representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples
have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results
of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of
19.15.36 NMAC.

5. Transporter:

SDR ENTERPRISES INC. (575) 441-7330

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #:

Lea Land LLC FP# WM-1035

Address of Facility:

Mile marker 64 US 62/180 E, CARLSBAD 88220

Method of Treatment and/or Disposal:

Evaporation Injection Treating Plant Landfarm Landfill Other

Waste Acceptance Status:

APPROVED

DENIED (Must Be Maintained As Permanent Record)

PRINT NAME:

Sarahyn Hall

TITLE:

Mky. Mung

DATE:

9/19/11

SIGNATURE:

Sarahyn Hall

TELEPHONE NO.:

605-619-1121

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST

NO

119650

1. PAGE ___ OF ___

2. TRAILER NO.

006

G

3. COMPANY NAME

E.O.G. Resources

4. ADDRESS

5509 Champlain Dr.

5. PICK-UP DATE

9/15/2017

PHONE NO.

(482) 886-3705

CITY

Midland

STATE

TX

ZIP

79706

6. TNRCC I.D. NO.

E

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

8. CONTAINERS
No. Type

9. TOTAL
QUANTITY

10. UNIT
Wt/Vol.

11. TEXAS
WASTE ID #

N

a. Non-Registered, Non-Hazardous Waste

1

CM

Y

E

b.

R

c.

12. COMMENTS OR SPECIAL INSTRUCTIONS:

PERDOMO "EMP" STATE COM #1 H

13. WASTE PROFILE NO.

A

14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

T

JOE ONTIVEROS

575-887-4048

O

15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R

PRINTED/TYPED NAME

SIGNATURE

DATE

T

16.

TRANSPORTER (1)

NAME:

SDR ENTERPRISE LLC

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

SHANNON RUSK

EMERGENCY PHONE:

(575) 441-7330

R

17.

TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

A

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

Rene Quetzada

SIGNATURE

DATE

9/15/2017

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

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Y

Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

9/15/2017

11:45

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST

NO

119650

1. PAGE ___ OF ___

2. TRAILER NO. 176

G

3. COMPANY NAME

EOJ Remediation

PHONE NO.

(432) 898-3705

4. ADDRESS

5509 Channing Dr

CITY

Midland

STATE

TX

ZIP

79706

5. PICK-UP DATE

9/15/2017

6. TNRCC I.D. NO.

2017-0000000000

E

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. Non-Hazardous High Hazardous Waste

b.

c.

R

12. COMMENTS OR SPECIAL INSTRUCTIONS:

PERDOMO "BMP" STATE COM # 11

A

T

14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

JOE CONTRERAS

PHONE NO

575-337-1015

24-HOUR EMERGENCY NO.

O

15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R

PRINTED/TYPED NAME

Joe Contreras

SIGNATURE

[Signature]

DATE

9/15/2017

T

R

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16.

TRANSPORTER (1)

NAME:

SCR ENTERPRISE LLC

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

Rene Quetzal

SIGNATURE

[Signature]

DATE

9/15/2017

17.

TRANSPORTER (2)

NAME:

SCR ENTERPRISE LLC

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

[Signature]

SIGNATURE

[Signature]

DATE

9/15/2017

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PERMIT NO.

WM-01-035 - New Mexico

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

[Signature]

CELL NO.

[Signature]

DATE

9/15/2017

TIME

11

TRANSPORTER'S MANIFEST

MANIFEST #

SHIPPING FACILITY NAME & ADDRESS:

EOG Resources

Juniper BIP Fed #5

Lea County, NM

EPI# 80-015-28577

LOCATION OF MATERIAL:

32.24898 -103.99232

TRANSPORTER NAME & ADDRESS:

FOR Enterprises LLC

8222 S Stronco, Hobbs, NM, 88240

DESCRIPTION OF WASTE:

Non-hazardous Contaminated Soil

QUANTITY:

CONTACT INFORMATION:

Steve Perez, Site Supervisor

10

505-281-1111

DATE:

SIGNATURE OF CONTACT:



On behalf of EOG Resources

NAME OF TRANSPORTER: (DRIVER)

DATE:

SIGNATURE OF DRIVER:

SPILLAGE INFORMATION:

Spill Date: 9-15-17

Spill Location: Only 1/2 of 32/180 Lb bag

Spill Description: 1/2 bag of soil

DATE:

9-15-17

SIGNATURE:



TRANSPORTER'S MANIFEST

MANIFEST #

SHIPPING FACILITY NAME & ADDRESS:

EOG Resources
Juniper BIP Fed #5
Lea County, NM
API# 30-015-28577

LOCATION OF MATERIAL:

32.24898 -103.99232

TRANSPORTER NAME & ADDRESS:

SDR Enterprises LLC
6222 S Bronco, Hobbs, NM, 88240

DESCRIPTION OF WASTE:

Non-Hazardous Contaminated Soil

QUANTITY:

FACILITY CONTACT:

Steve Perez, Site Supervisor
PH
705 833-5782

DATE:

SIGNATURE OF CONTACT:



On behalf of EOG Resources

NAME OF TRANSPORTER: (DRIVER)

DATE:

SIGNATURE OF DRIVER:

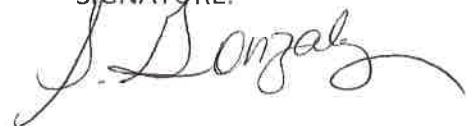
DISPOSAL SITE:

La Land LLC
Mile Marker 64, Hwy 62/180 East
Arnsford, NM, 88220

DATE:

9-15-17

SIGNATURE:



LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

E.O.G.

NON-HAZARDOUS WASTE MANIFEST

NO

119671

1. PAGE ___ OF ___

2. TRAILER NO.

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3. COMPANY NAME

E.O.G. Resources

PHONE NO.

(432) 696-3705

4. ADDRESS

5509 Champion Dr.

CITY

STATE

ZIP

Midland

TX

79706

5. PICK-UP DATE

9/18/2017

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. Non-Regulated, Non-Hazardous Waste

b.

c.

d. WT 44,080 43,580

8. CONTAINERS

No.

Type

1

CM

9. TOTAL QUANTITY

10. UNIT Wt/Vol.

Y

11. TEXAS WASTE ID #

12. COMMENTS OR SPECIAL INSTRUCTIONS:

PERDOMO "BMP" STATE.COM #1 H

13. WASTE PROFILE NO.

14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

JOE ONTIVEROS

575-887-4048

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

SIGNATURE

DATE

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16. TRANSPORTER (1)

NAME:

SDR ENTERPRISE LLC

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

SHANNON RUSK

EMERGENCY PHONE:

(575) 441-7330

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

Shannon Rusk

SIGNATURE

Shannon Rusk

DATE

9/18/2017

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

Donaldez

CELL NO.

Donaldez

DATE

9/18/2017

TIME

25
10

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST

NO

119671

1. PAGE ___ OF ___

2. TRAILER NO. _____

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3. COMPANY NAME

E.O.G. Resources

PHONE NO.

(332) 006-3705

4. ADDRESS

5500 Channing Dr

CITY

STATE

ZIP

Midland

TX

79706

5. PICK-UP DATE

9/15/2017

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. Non-Regulated, Non-Hazardous Waste

b.

c.

d.

12. COMMENTS OR SPECIAL INSTRUCTIONS:

PERFORM "BMP" STATE COMPLIANCE

13. WASTE PROFILE NO.

14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

JOE ONTIVEROS

575-887-4048

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

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16.

TRANSPORTER (1)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

17.

TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

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DATE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

TRANSPORTER'S MANIFEST

MANIFEST #

SHIPPING FACILITY NAME & ADDRESS:

EOG Resources

Perdorno BMP State Com #1H

Eddy County, NM

API# 30-015-36499

LOCATION OF MATERIAL:

32.20029 -104.15024

TRANSPORTER NAME & ADDRESS:

SDR Enterprises LLC

6222 S Bronco, Hobbs, NM, 88240

Phone: (505) 441-7330

DESCRIPTION OF WASTE:

Non-Hazardous Contaminated Soil

QUANTITY:

20

FACILITY CONTACT:

Steve Perez, Site Supervisor

GAD

505-683-5182

DATE:

SIGNATURE OF CONTACT:



On behalf of EOG Resources

NAME OF TRANSPORTER: (DRIVER)

DATE:

9-18-17

SIGNATURE OF DRIVER:



DISPOSAL SITE:

Tea Land LLC

mile marker 64, Hwy 62/180 East

Carlsbad, NM, 88220

DATE:

9-18-17

SIGNATURE:



TRANSPORTER'S MANIFEST

MANIFEST #

SHIPPING FACILITY NAME & ADDRESS:

EOG Resources

Perdomo BMP State Com #1H

Eddy County, NM

API# 30-015-36499

LOCATION OF MATERIAL:

32.20029 -104.15024

TRANSPORTER NAME & ADDRESS:

SDR Enterprises LLC

6222 S Bronco, Hobbs, NM, 88240

Phone: (505) 441-7330

DESCRIPTION OF WASTE:

Non-Hazardous Contaminated Soil

QUANTITY:

20

FACILITY CONTACT:

Steve Perez, Site Supervisor

GRD

505-689-5782

DATE:

SIGNATURE OF CONTACT:



On behalf of EOG Resources

NAME OF TRANSPORTER: (DRIVER)

DATE:

9-18-17

SIGNATURE OF DRIVER:



DISPOSAL SITE:

Lea Land LLC

mile marker 64, hwy 62/180 east

Carlsbad, NM, 88220

DATE:

9-18-17

SIGNATURE:



LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

SDR

NON-HAZARDOUS WASTE MANIFEST

NO

119674

1. PAGE ___ OF ___

2. TRAILER NO.

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3. COMPANY NAME

E.O.G. Resources

PHONE NO.

(432) 886-3705

4. ADDRESS

8508 Champion Dr.

CITY

Midland

STATE

TX

ZIP

79706

5. PICK-UP DATE

9/18/2017

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. Non-Regulated, Non-Hazardous Waste

b.

c.

d. wt 38,320 40760

8. CONTAINERS

No.

Type

1

CM

9. TOTAL QUANTITY

10. UNIT Wt/Vol.

Y

11. TEXAS WASTE ID

12. COMMENTS OR SPECIAL INSTRUCTIONS:

PERDOMO "EMP" STATE COM # 1 H

13. WASTE PROFILE NO.

14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

JOE ONTIVEROS

575-887-4048

15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

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16. TRANSPORTER (1)

NAME:

SDR ENTERPRISE LLC

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

SHANNON RUSH

EMERGENCY PHONE:

(575) 441-7330

18. TRANSPORTER (1): Acknowledgment of receipt of material

PRINTED/TYPED NAME

Rene Guadalupe

SIGNATURE

DATE

9/18/2017

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. TRANSPORTER (2): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

20

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST

NO

119674

1. PAGE ___ OF ___

2. TRAILER NO. 0006

G

3. COMPANY NAME

E.O.G. Resources

PHONE NO.

(405) 900-1705

4. ADDRESS

5019 Champion Dr

CITY

STATE

ZIP

Midland

TX

79706

5. PICK-UP DATE

9/18/2017

6. TNRCC I.D. NO.

E

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

8. CONTAINERS
No. Type

9. TOTAL
QUANTITY

10. UNIT
Wt/Vol.

11. TEXAS
WASTE ID #

N

a. Non-Regulated, Non-Hazardous Waste

1

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b.

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c. WT 38,350 40760

A

12. COMMENTS OR SPECIAL INSTRUCTIONS:

PERDORA'S BMP STATE COM #1 H

13. WASTE PROFILE NO.

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14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

DE ONTIVEROS

575-887-1019

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15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R

PRINTED/TYPED NAME

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16.

TRANSPORTER (1)

NAME:

SCR ENTERPRISE LLC

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

SHANNON RUSH

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

17.

TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

TRANSPORTER'S MANIFEST

MANIFEST #

SHIPPING FACILITY NAME & ADDRESS:

EOG Resources

Perdomo BMP State Com #1H

Eddy County, NM

API# 30-015-36499

LOCATION OF MATERIAL:

32.20029 -104.15024

TRANSPORTER NAME & ADDRESS:

SDR Enterprises LLC

6222 S Brisco, Hobbs, NM, 88240

Phone: (505) 441-7330

DESCRIPTION OF WASTE:

Non-Hazardous Contaminated Soil

QUANTITY:

FACILITY CONTACT:

Steve Perez, Site Supervisor

CHD

505-889-5782

DATE:

SIGNATURE OF CONTACT:



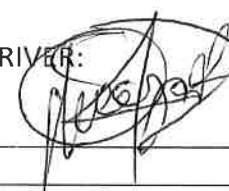
On behalf of EOG Resources

NAME OF TRANSPORTER: (DRIVER)

DATE:

SIGNATURE OF DRIVER:

Rene Qezada 9/18/17



DISPOSAL SITE:

Sea Land LLC

mile marker 64, Hwy 62/180 East

Carlsbad, NM, 88220

DATE:

9.18.17

SIGNATURE:



TRANSPORTER'S MANIFEST

MANIFEST #

SHIPPING FACILITY NAME & ADDRESS:

EOG Resources

Perdono BMP State Com #1H

Eddy County, NM

API# 30-015-36499

LOCATION OF MATERIAL:

32.20029 -104.15024

TRANSPORTER NAME & ADDRESS:

SDR Enterprises LLC

6222 S Bronco, Hobbs, NM, 88240

Phone: (505) 441-7330

DESCRIPTION OF WASTE:

Non-Hazardous Contaminated Soil

QUANTITY:

200

FACILITY CONTACT:

Steve Perez, Site Supervisor

ESD

505-633-5782

DATE:

SIGNATURE OF CONTACT:

Steven Perez

On behalf of EOG Resources

NAME OF TRANSPORTER: (DRIVER)

DATE:

Rene Quezada

SIGNATURE OF DRIVER:

Rene Quezada

DISPOSAL SITE:

Sea Land LLC

mile marker 64, Hwy 62/180 East

Carlsbad, NM, 88220

DATE:

9-18-17

SIGNATURE:

S. Donzalez

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST

NO

119675

1. PAGE ___ OF ___

2. TRAILER NO.

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3. COMPANY NAME

E.O.G. Resources

PHONE NO.

(432) 888-3705

4. ADDRESS

5500 Champion Dr.

CITY

Midland

STATE

TX

ZIP

79706

5. PICK-UP DATE

9/18/2017

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. Non-Regulated, Non-Hazardous Waste

b.

c.

d. WT

42060

42120

8. CONTAINERS

No.

Type

1

CM

9. TOTAL QUANTITY

10. UNIT Wt/Vol.

Y

11. TEXAS WASTE ID #

12. COMMENTS OR SPECIAL INSTRUCTIONS:

PERDOMO "BMP" STATE COM #1 H

13. WASTE PROFILE NO.

14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

JOE ONTIVEROS

575-887-4048

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

SIGNATURE

DATE

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16.

TRANSPORTER (1)

NAME:

SDR ENTERPRISE LLC

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

SHANNON RUSH

EMERGENCY PHONE:

(575) 444-7330

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

Jose Mendez

SIGNATURE

Jose Mendez

DATE

9/18/2017

17.

TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

Dante Gonzalez

CELL NO.

DATE

9/18/2017

TIME

11:25

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST

NO

119675

1. PAGE 2 OF 4

2. TRAILER NO.

3. COMPANY NAME

E.O.O. Resources

PHONE NO.

(405) 606-3700

4. ADDRESS

5508 Champion Dr

CITY

Midland

STATE

TX

ZIP

79706

5. PICK-UP DATE

9/18/2017

6. TNRCC I.D. NO.

1030

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. Non-Regulated, Non-Hazardous Waste

b.

c.

d.

12. COMMENTS OR SPECIAL INSTRUCTIONS:

PERDOMO TNP STATE COM #14

13. WASTE PROFILE NO.

1120

14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

DE OLIVEROS

575-887-1018

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

SIGNATURE

DATE

16. **TRANSPORTER (1)**

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

17. **TRANSPORTER (2)**

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

TRANSPORTER'S MANIFEST

MANIFEST #

SHIPPING FACILITY NAME & ADDRESS:

EOG Resources

Perdomo BMP State Com #1H

Eddy County, NM

API# 30-015-36499

LOCATION OF MATERIAL:

32.20029 -104.15024

TRANSPORTER NAME & ADDRESS:

SDR Enterprises LLC

6222 S Bronco, Hobbs, NM, 88240

Phone: (505) 441-7330

DESCRIPTION OF WASTE:

Non-Hazardous Contaminated Soil

QUANTITY:

4A 160

FACILITY CONTACT:

Steve Perez, Site Supervisor

GRD

505-689-0782

DATE:

SIGNATURE OF CONTACT:

Steven Perez

On behalf of EOG Resources

NAME OF TRANSPORTER: (DRIVER)

DATE:

9-18-2017

SIGNATURE OF DRIVER:

Jose Mendoza

DISPOSAL SITE:

Sea Land LLC

mile marker 64, Hwy 62/180 East

Carlsbad, NM, 88220

DATE:

9-18-17

SIGNATURE:

J. Gonzalez

TRANSPORTER'S MANIFEST

MANIFEST #

SHIPPING FACILITY NAME & ADDRESS:

EOG Resources

Perdono BMP State Com #1H

Eddy County, NM

API# 30-015-36499

LOCATION OF MATERIAL:

32.20029 -104.15024

TRANSPORTER NAME & ADDRESS:

SDR Enterprises LLC

6222 S Bronco, Hobbs, NM, 88240

Phone: (505) 441-7330

DESCRIPTION OF WASTE:

Non-Hazardous Contaminated Soil

QUANTITY:

42060

FACILITY CONTACT:

Steve Perez, Site Supervisor

GRD

505-689-5782

DATE:

SIGNATURE OF CONTACT:



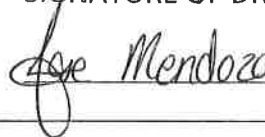
On behalf of EOG Resources

NAME OF TRANSPORTER: (DRIVER)

DATE:

9-18-2017

SIGNATURE OF DRIVER:



DISPOSAL SITE:

Sea Land LLC

mile marker 64, Hwy 62/180 East

Grispac, NM, 88220

DATE:

9-18-17

SIGNATURE:

