

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 benzene, 50 mg/kg for total BTEX, 100 mg/kg for TPH¹, and 600 mg/kg for chlor	



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

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

Alan Brandon
Senior Project Manager

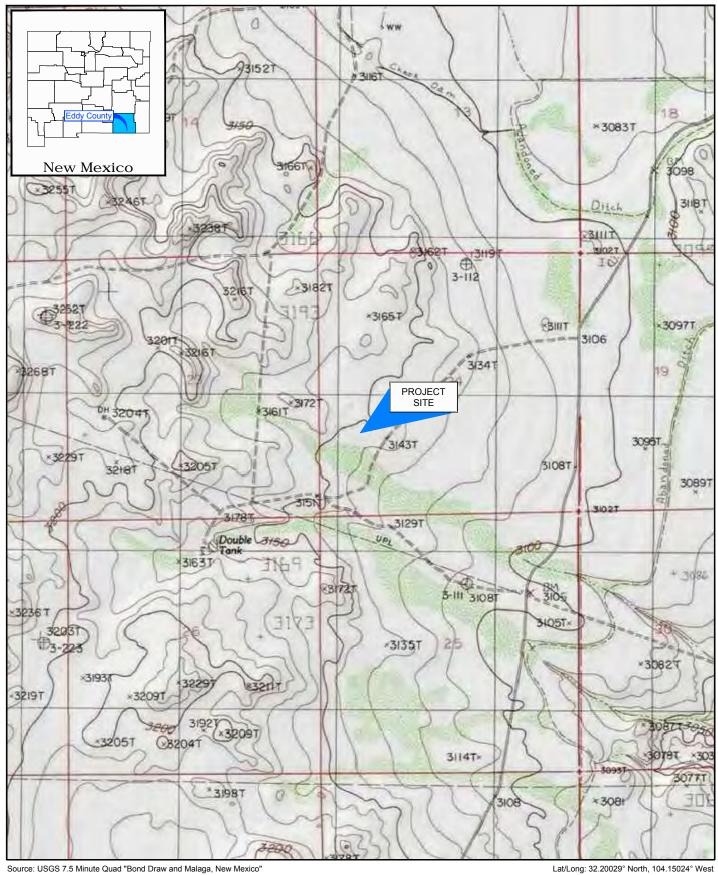
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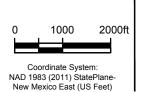
BB/mc/30

Bernard Bockisch

New Mexico Operations Manager









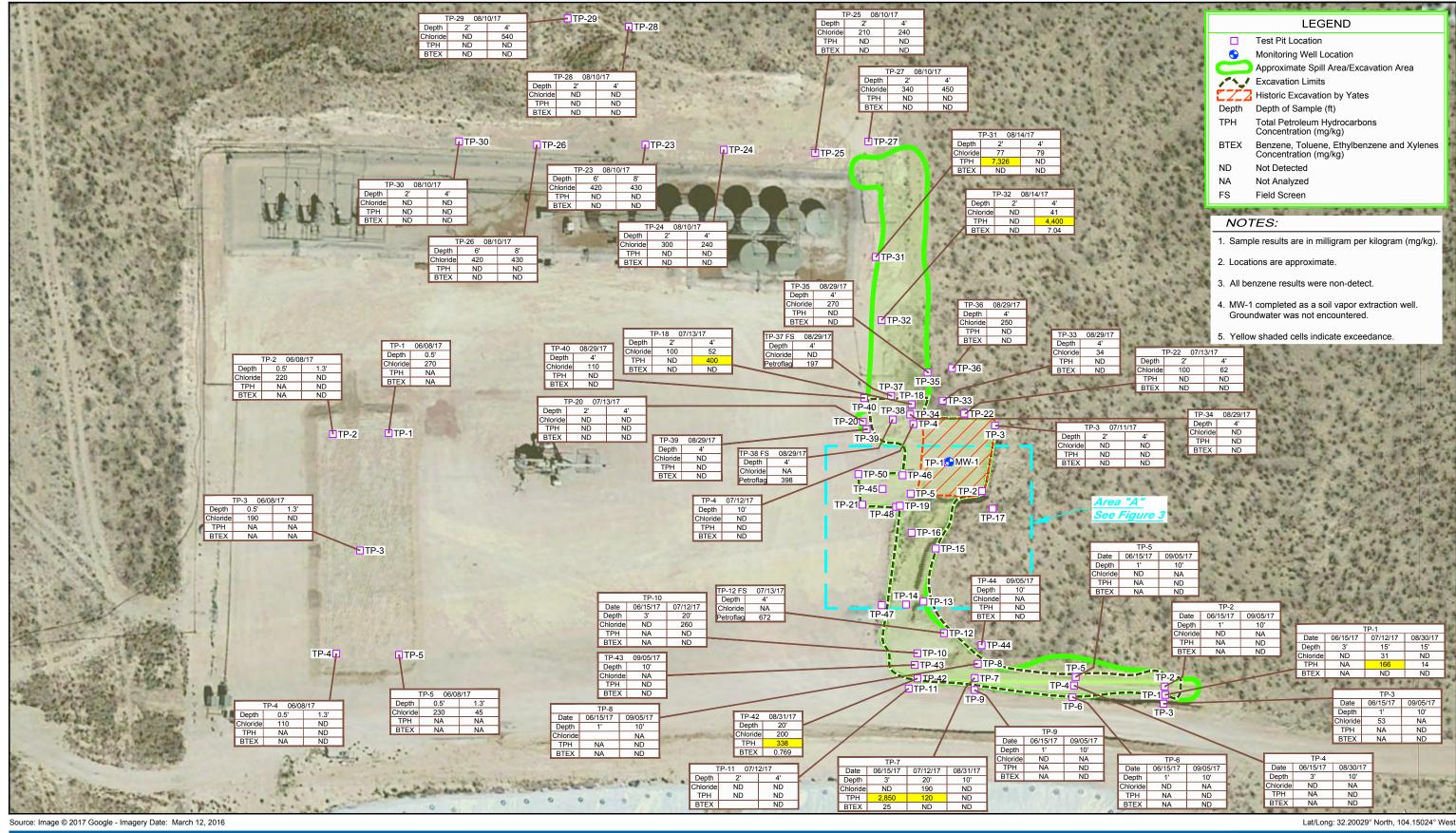


EOG RESOURCES EDDY COUNTY, NEW MEXICO PERDOMO BMP STATE COM No.1

088210-37 Jul 18, 2017

SITE LOCATION MAP

FIGURE 1



EOG RESOURCES
EDDY COUNTY, NEW MEXICO

O 25 50ft

Coordinate System:

NAD 1983 (2011) StatePlaneNew Mexico East (US Feet)



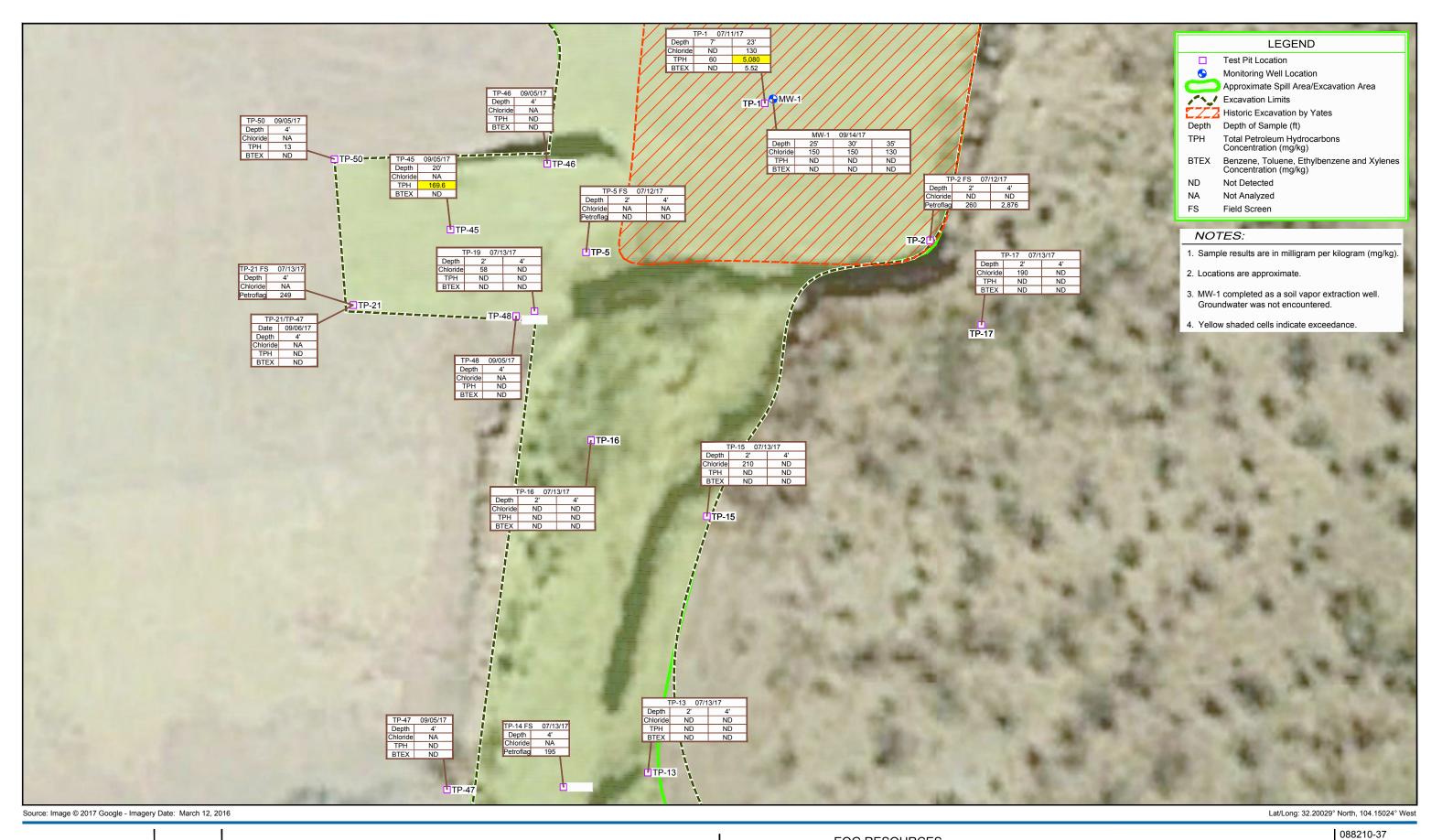
GHD

SAMPLE LOCATION MAP

PERDOMO BMP STATE COM No.1

Oct 24, 2017

088210-37



EOG RESOURCES

Oct 24, 2017

NAD 1983 (2011) StatePlane New Mexico East (US Feet)

10ft

EDDY COUNTY, NEW MEXICO PERDOMO BMP STATE COM No.1 **DETAIL OF AREA "A"** SAMPLE LOCATION MAP

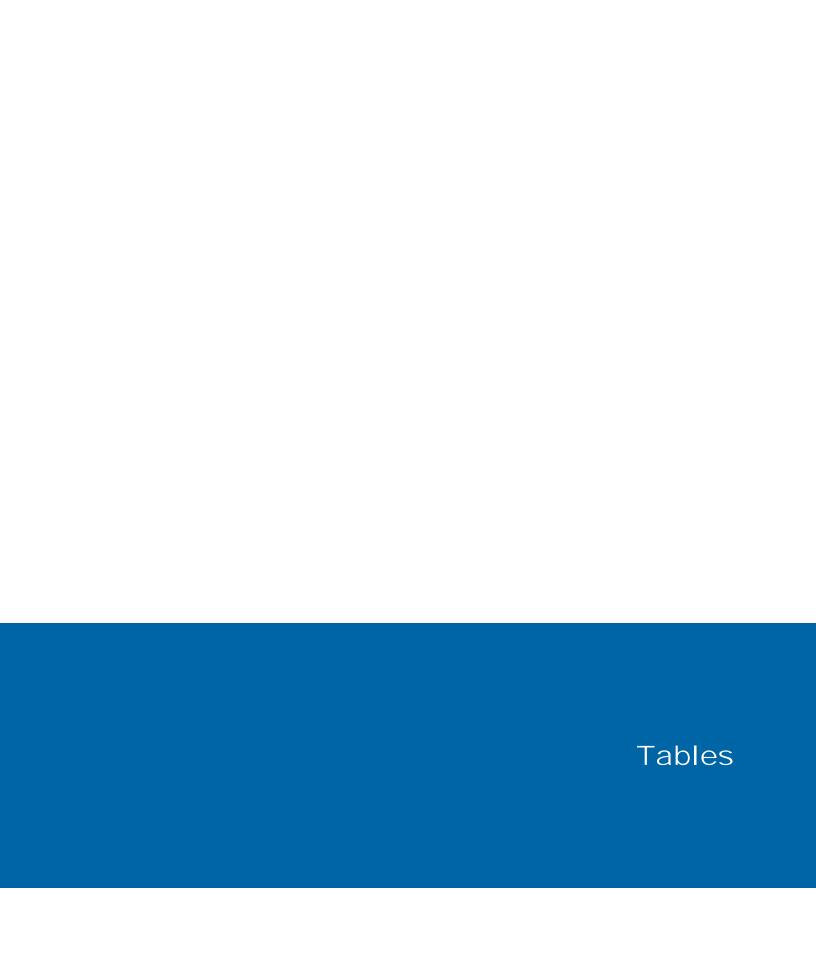


Table 1

Perdomo BMP State #1 - Summary of Soil Analytical Data

	Depth							TPH	TPH	TPH	Total	
Sample ID	(feet)	Date	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	(GRO)	(DRO)	(MRO)	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 NA	NA	NA	220
088210-37-060817-MG-TP-3-6" 088210-37-060817-MG-TP-3-16"	0.5 1.3	06/08/2017 06/08/2017	NA NA	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	190 <30
088210-37-060817-MG-TP-4-6"	0.5	06/08/2017	NA NA	NA NA	NA NA	NA NA	NA 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 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 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 0.004	NA 0.040	NA 0.040	NA 0.007	NA 0.040	NA 4.0	NA 0.0	NA 40	NA 00.7	<30
088210-37-090517-SP-TP-5-10 088210-37-061517-MG-TP-6-1	10	09/05/2017 06/15/2017	<0.024 NA	<0.049 NA	<0.049 NA	<0.097 NA	<0.219 NA	<4.9 NA	<9.8 NA	<49 NA	<63.7 NA	NA <30
088210-37-061517-MG-1P-6-1 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	NA <47	<61.0	NA
088210-37-090317-3F-1F-0-10	3	06/15/2017	<0.023	<0.046	<0.046	25	25	780	1600	470	2850	<30
088210-37-083117-NG-11-7-3	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	<0.049	<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	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
088210-37-071217-3F-TF-4-10	2	07/12/2017	<0.025	<0.047	<0.047	<0.098	<0.210	<4.7	<9.9	<49	<63.8	<30
088210-37-071217-SP-TP-11-4	4	07/12/2017	<0.023	<0.049	<0.049	<0.096	<0.216	<4.8	<9.8	<49	<63.6	<30
303210-31-01 1211-01 -11-11-4	7	01/12/2011	₹0.02 ∓	\0.0 1 0	\0.0 1 0	\0.030	₹0.210	\ 7 .0	\0.0	\ - 73	\00.0	\00
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 088210-37-071317-SP-TP-20-2	2	07/13/2017 07/13/2017	<0.024 <0.024	<0.048 <0.047	<0.048 <0.047	<0.096 <0.094	<0.216 <0.212	<4.8 <4.7	<9.4 <9.9	<47 <50	<61.2 <64.6	<30 <30
088210-37-071317-SP-TP-20-2 088210-37-071317-SP-TP-20-4	4	07/13/2017	<0.024	<0.047	<0.047 <0.047	<0.094	<0.212	<4.7 <4.7	<9.9 <10	<50 <50	<64.6 <64.7	<30 <30
088210-37-071317-SP-TP-20-4 088210-37-090617-SP-TP-21-4	4	09/06/2017	<0.023	<0.047	<0.047	<0.094	<0.211	<4.7 <4.7	<10 <9.5	<50 <47	<61.2	NA
088210-37-090617-3F-1F-21-4	2	07/13/2017	<0.024	<0.047	<0.047	<0.095	<0.213	<4.7 <4.7	<9.5 <10	<47 <50	<64.7	100
088210-37-071317-SP-TP-22-4	4	07/13/2017	<0.025	<0.047	<0.047	<0.094	<0.211	<4.7	<9.4	<47	<61.3	62
333270 07 07 1017 01 11 -22-4	7	37710/2017	10.020	40.040	10.040	٧٥.٥٥٥	70.222	\ - 1.0	₹0.7	277	101.0	02
1												

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
088210-37-081017-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	<0.023	<0.047	<0.047	<0.095	<0.211	<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	<.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 Ra	nking Score =	20)	10		50				Total TF	PH: 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



Appendix A USGS Well Information

Perdomo BMP State Con #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,

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

C=the file is closed) largest)

(NAD83 UTM in meters)

(In feet)

QQQ Code basin County 6416 4 Sec Tws Rng

Water DistanceDepthWellDepthWater Column

POD Number C 01721

C ED

POD Sub-

> 1 25 24S 27E 580271 3562033*

944 170

C 03145

Ċ ED 3 1 4 13 24S 27E

580749 3564579

103

63

Average Depth to Water:

40 feet

Minimum Depth:

40 feet

Maximum Depth:

40 feet

Record Count:2

UTMNAD83 Radius Search (in meters):

Easting (X): 580049.3

Northing (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.

B/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:	0.00	Geographic Area:		
Groundwater	V	United States	~	GO

Click to hideNews Bulletins

Please see news on new formats

Full News

Groundwater levels for the Nation

Perdomo

N 2 miles away

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

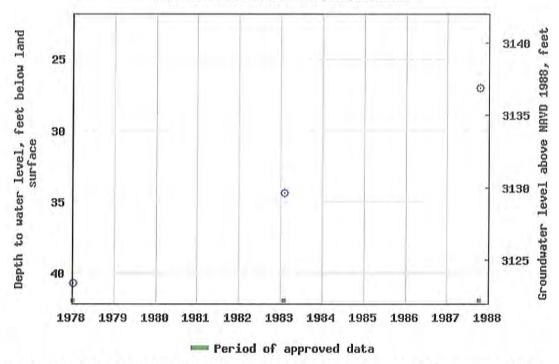
Land-surface elevation 3,164 feet above NAVD88

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

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

USGS 321000104092501 25S.27E.02.21122



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

Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility Plug-Ins FOIA Privacy 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: <u>USGS Water Data Support Team</u>

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

0.55 0.5 nadww02







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,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: **1706711**Date Reported: **6/23/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1706711 Project: Perdomo 1706711-001 **Collection Date:** 6/8/2017 1:40:00 PM Lab ID: 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 1706711-002 **Collection Date:** 6/8/2017 1:45:00 PM Lab ID: Client Sample ID: 088210-37-060817-MG-TP-2-6" Matrix: SOIL Result **PQL Qual Units DF** Date Analyzed **Batch ID** Analyses **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 **PQL Qual Units** Analyses Result **DF Date Analyzed Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA 20 6/21/2017 3:29:36 PM Chloride 190 30 mg/Kg 32409 1706711-004 Lab ID: **Collection Date:** 6/8/2017 2:15:00 PM Client Sample ID: 088210-37-060817-MG-TP-4-6" Matrix: SOIL **POL Qual Units** Analyses Result **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 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 **PQL Qual Units Analyses** Result **DF Date Analyzed Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA

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

30

mg/Kg

230

Qualifiers: * Value exceeds Maximum Contaminant Level.

Chloride

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative 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 Page 1 of 3

20 6/21/2017 3:54:26 PM

32409

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Lab Order: 1706711

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/23/2017

CLIENT: GHD Lab Order: 1706711

Project: Perdomo

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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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 Page 2 of 3
- 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#: 1706711

23-Jun-17

Client: GHD Project: Perdomo

Sample ID MB-32409 SampType: mblk TestCode: EPA Method 300.0: Anions

PBS Client ID: 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: Ics 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

Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Qual

Chloride 14 1.5 15.00 0 92.7 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Reporting Detection Limit

Sample pH Not In Range

RL

Sample container temperature is out of limit as specified

Page 3 of 3



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		12-2	-	
Completed By:	Erin Melendrez	6/13/2017 3:46:46 PM		2-2	<u>-</u>	
Reviewed By:	ENMIPE	06/14/17		, 0		
Chain of Cus	stody					
1. Custody se	als intact on sample bottles	s?	Yes \square	No 🗆	Not Present 🗹	
2. Is Chain of	Custody complete?		Yes 🗸	No 🗌	Not Present	
3. How was th	e sample delivered?		<u>Client</u>			
<u>Log In</u>						
4. Was an att	empt made to cool the sam	nples?	Yes 🗹	No 🗌	na 🗆	
5. Were all sa	mples received at a tempe	rature of >0° C to 6.0°C	Yes 🔽	No 🗌	NA \square	
6. Sample(s)	in proper container(s)?		Yes 🗹	No 🗆		
7. Sufficient sa	ample volume for indicated	test(s)?	Yes 🗹	No 🗌		
8. Are sample	s (except VOA and ONG) p	properly preserved?	Yes 🗸	No 🗌	_	
Was preser	vative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
10.VOA vials h	ave zero headspace?		Yes 🗌	No □	No VOA Vials	
11. Were any s	sample containers received	broken?	Yes \square	No 🗹	# of preserved	
					bottles checked	
• -	work match bottle labels? epancies on chain of custoo	411)	Yes 🗹	No 🗀	for pH:(<2 o	r >12 unless noted)
,	s correctly identified on Ch		Yes 🗹	No □	Adjusted?	
	hat analyses were requeste		Yes 🗹	No 🗔		
15. Were all ho	lding times able to be met?	>	Yes 🗹	No □	Checked by:	
(If no, notify	customer for authorization	1.)		· ·		
Special Hand	dling (if applicable)					
	notified of all discrepancies	with this order?	Yes 🗌	No 🗆	NA 🗹	
Perso	on Notified:	Date [
By W	hom:	Via: [eMail	Phone Fax	In Person	
Rega	rding:					
Client	Instructions:					
17. Additional	remarks:					_
18. Cooler Info		non-Book transporter, comp. No				
Cooler N			Seal Date	Signed By		
[1	1.7 Good	Not Present				

	ANALYSTS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analy	POTION ONLY	8 (802)	HPT 4 AD \ OS (1.81) (20), (20) (20), (20) S808 \ (20) (A)	AOV) AOV) AOV	BTEX + MTE BTEX + MTE BTEX + MTE TPH (Metho PAH's (8310 PAH's (8310 RCRA 8 Metho RC	X	X	2	\times \tau \tau \tau \tau \tau \tau \tau \tau	X	X	X L				Time Remarks: $7 \mathcal{D8} \mathcal{C}$	Time
Ime:	□ Rush		DWO	0-37	, , , , , , , , , , , , , , , , , , ,	- - - -	ernand Bockisch	Michael Gant	1	Preservative HEAL No.	100- 37	700-	-003	1-00rd	-005	~000	T-00-				ρ Date Time $(6/4)^2 \rho 8 \alpha$	2 bate Time 2 (0/19/17 09/15
cord um-Around lime	A.C. Standard	Pro	Red Stale	110 Pro		iniall of Fax#: Democratic Delect Manager:	Ď	Sampler: M.S	Sample Temp		3.0580.31-06081-MC-TP-H-2tez Sal Tat	, , ,	80.M6-TP-3-6"	5-05821c-37-060817AG-TP-44"	1817-16-TP.S-6"	8-08821037-060811-46-17-5-16"	5.088210-37-060817-MC-TP-3-16"				Received W.	Received by:
Chain-of-Custody Record	Services, I		Aailing Address: 6121 Indian Scheel	Albuquerque, NM 87110	22 284 0677	Damararoockis	e: □ Level 4 (Full Validation)	□ Other	()	Matrix Sample Request ID	5	√	5		÷		N				Relinquished by:	Relinquished y:
Chai	Slient: GHD		Aailing Addre	IE Albo	hone #: 50 52	imall or rax#	aA/QC Package: □ Standard	Accreditation NELAP	1 EDD (Type)	Date Time	,18 1340	18 1345	78 juos	18 1415 5	18 14205	18 14455	18 1500	_		192-89	ate: Time: Ω	ate: Time: 2/17 1900



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,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1706971**

Date Reported: 6/23/2017

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al 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 RANG	E ORGANICS	S			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 RANG	GE				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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 19
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Lab Order **1706971**

Date Reported: 6/23/2017

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: MRA
Chloride	ND	30	mg/Kg	20	6/20/2017 12:07:42 AM	1 32375
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	S			Analys	: 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 RANG	SE .				Analys	:: 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					Analys	:: 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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 19
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Lab Order **1706971**

Date Reported: 6/23/2017

Hall Environmental Analysis Laboratory, Inc.

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 Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	ND	30	mg/Kg	20 6/20/2017 12:20:07 A	M 32375

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 19
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Lab Order **1706971**Date Reported: **6/23/2017**

Hall Environmental Analysis Laboratory, Inc.

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 Qua	l Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	ND	30	mg/Kg	20 6/20/2017 12:32:32 A	M 32375

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 19
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Lab Order **1706971**

Date Reported: 6/23/2017

Hall Environmental Analysis Laboratory, Inc.

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				Analys	st: MRA
Chloride	53	30	mg/Kg	20 6/20/2017 12:44:57 Al	M 32375

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 5 of 19 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Lab Order **1706971**

Date Reported: 6/23/2017

Hall Environmental Analysis Laboratory, Inc.

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 Qua	l Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	ND	30	mg/Kg	20 6/20/2017 12:57:22 A	M 32375

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 6 of 19 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Lab Order **1706971**

Hall Environmental Analysis Laboratory, Inc.

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 Qua	al Units	DF Date Analyze	d Batch
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20 6/20/2017 1:34	:36 AM 32375

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 19
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Lab Order **1706971**

Date Reported: 6/23/2017

Hall Environmental Analysis Laboratory, Inc.

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 Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	ND	30	mg/Kg	20 6/20/2017 1:47:01 AM	M 32375

-				
Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 19
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Lab Order **1706971**

Date Reported: 6/23/2017

Hall Environmental Analysis Laboratory, Inc.

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 RANG	E ORGANICS	3				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 RAN	GE					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	1 32355
EPA METHOD 8021B: VOLATILES						Analyst	:: NSB
Benzene	ND	0.12		mg/Kg	5	6/20/2017 12:50:25 PM	1 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

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 19
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative 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
	D H ND	 D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Lab Order **1706971**

Date Reported: 6/23/2017

Hall Environmental Analysis Laboratory, Inc.

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 Qua	l Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	ND	30	mg/Kg	20 6/20/2017 2:11:50 AM	M 32375

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 10 of 19 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Lab Order **1706971**

Date Reported: 6/23/2017

Hall Environmental Analysis Laboratory, Inc.

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

CLIENT: GHD Project: Perdomo **Collection Date:** 6/15/2017 10:35:00 AM

1706971-011 Lab ID: Matrix: SOIL **Received Date:** 6/17/2017 9:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	/st: MRA
Chloride	ND	30	mg/Kg	20	6/20/2017 2:24:15 A	M 32375

*	Value exceeds Maximum Contaminant Level.	В	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 Page 11 of 19
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative 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
-	D H ND	 D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Lab Order **1706971**

Date Reported: 6/23/2017

Hall Environmental Analysis Laboratory, Inc.

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 Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	yst: MRA
Chloride	ND	30	mg/Kg	20 6/20/2017 2:36:40 Al	M 32375

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 12 of 19 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

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: Ics 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 Quanitative 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

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GHD

Client:

Hall Environmental Analysis Laboratory, Inc.

WO#: **1706971**

23-Jun-17

Project:	Perdomo										
Sample ID	LCS-32362	SampT	ype: LC	s	Test	Code: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	ID: 32	362	R	unNo: 4	3629				
Prep Date:	6/19/2017	Analysis Da	ate: 6/	20/2017	S	eqNo: 1	374617	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
=	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	SampT	ype: Mi	BLK	Test	Code: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: 32	362	R	unNo: 4	3629				
Prep Date:	6/19/2017	Analysis D	ate: 6/	20/2017	S	eqNo: 1	374618	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
=	Organics (DRO)	ND	10								
Surr: DNOP	ge Organics (MRO)	ND 10	50	10.00		100	70	130			
Commis ID	MD 00400	Camar		N. 14	Tool	Onder F	DA M-411	0045N4D D:	!	. 0	
Client ID:	MB-32430	SampT	ype: Mi ID: 32			unNo: 4		8015M/D: Die	esei Rang	e Organics	
	6/22/2017	Analysis Da	_			eqNo: 1		Units: %Red	-		
	0/22/2017	-				·				55511 1	
Analyte Surr: DNOP		Result 7.2	PQL	10.00	SPK Ref Val	71.8	LowLimit 70	HighLimit 130	%RPD	RPDLimit	Qual
	LCS-32430	SampT						8015M/D: Die	esel Rang	e Organics	
Client ID:			ID: 32			unNo: 4		Haller M.D.	_		
Prep Date:	6/22/2017	Analysis Da	ate: 6/			eqNo: 1	3//203	Units: %Red	C		
Analyte Surr: DNOP		Result 4.8	PQL	SPK value 5.000	SPK Ref Val	%REC 96.3	LowLimit 70	HighLimit 130	%RPD	RPDLimit	Qual
Sull. DINOP						90.3	70	130			
Sample ID	MB-32418	SampT						8015M/D: Die	esel Rang	e Organics	
Client ID:	PBS		ID: 32			unNo: 4					
Prep Date:	6/21/2017	Analysis Da	ate: 6/	22/2017	S	eqNo: 1	377405	Units: mg/K	(g		
Analyte		Result		SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	Organics (DRO) ge Organics (MRO)	ND ND	10 50								
Surr: DNOP	ge Organics (wiko)	8.5	30	10.00		85.4	70	130			
Completo	1.00.20442				T				and Des	. 0	
Sample ID Client ID:	LCS-32418	SampT						8015M/D: Die	esei Rang	e Organics	
Prep Date:	LCSS 6/21/2017		ID: 32			unNo: 4 eqNo: 1		Unite: ma/M	'a		
·	0/21/2017	Analysis Da				•		Units: mg/K	_	555/	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

4.9

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) 10 50.00 0 73.2 53 105 114 Surr: DNOP 95.4 4.8 5.000 130

Sample ID 1706971-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics 088210-37-061417-M Batch ID: 32418 RunNo: 43710 Analysis Date: 6/22/2017 SeqNo: 1377610 Prep Date: 6/21/2017 Units: mg/Kg SPK value SPK Ref Val Analyte Result **PQL** %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 48.26 7.853 133 55.8 122 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 SeqNo: 1377611 Prep Date: 6/21/2017 Analysis Date: 6/22/2017 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result **PQL** LowLimit Diesel Range Organics (DRO) 62 48.73 7.853 110 55.8 122 16.0 20 Surr: DNOP

100

70

130

0

0

4.873

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1706971**

23-Jun-17

Client: GHD Project: Perdom	10		
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	404 54	450
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		SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)			
	23 5.0 25.00	0 93.8 76.4	125 150
Surr: BFB	23 5.0 25.00 1100 1000	113 54	150
Sample ID MB-32413	1100 1000 SampType: MBLK	113 54 TestCode: EPA Method	
Sample ID MB-32413 Client ID: PBS	1100 1000 SampType: MBLK Batch ID: 32413	TestCode: EPA Method RunNo: 43721	8015D: Gasoline Range
Sample ID MB-32413 Client ID: PBS Prep Date: 6/21/2017	1100 1000 SampType: MBLK	113 54 TestCode: EPA Method	150
Sample ID MB-32413 Client ID: PBS Prep Date: 6/21/2017 Analyte	SampType: MBLK Batch ID: 32413 Analysis Date: 6/22/2017 Result PQL SPK value	TestCode: EPA Method RunNo: 43721	8015D: Gasoline Range Units: mg/Kg
Sample ID MB-32413 Client ID: PBS Prep Date: 6/21/2017	1100 1000 SampType: MBLK Batch ID: 32413 Analysis Date: 6/22/2017	TestCode: EPA Method RunNo: 43721 SeqNo: 1377556	8015D: Gasoline Range Units: mg/Kg
Sample ID MB-32413 Client ID: PBS Prep Date: 6/21/2017 Analyte Gasoline Range Organics (GRO)	1100 1000 SampType: MBLK Batch ID: 32413 Analysis Date: 6/22/2017 Result PQL SPK value ND 5.0	TestCode: EPA Method RunNo: 43721 SeqNo: 1377556 SPK Ref Val %REC LowLimit 93.3 54	150 8015D: Gasoline Range Units: mg/Kg HighLimit %RPD RPDLimit Qual
Sample ID MB-32413 Client ID: PBS Prep Date: 6/21/2017 Analyte Gasoline Range Organics (GRO) Surr: BFB	1100 1000 SampType: MBLK Batch ID: 32413 Analysis Date: 6/22/2017 Result PQL SPK value ND 5.0 930 1000	TestCode: EPA Method RunNo: 43721 SeqNo: 1377556 SPK Ref Val %REC LowLimit 93.3 54	150 8015D: Gasoline Range Units: mg/Kg HighLimit %RPD RPDLimit Qual
Sample ID MB-32413 Client ID: PBS Prep Date: 6/21/2017 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID LCS-32413	1100 1000 SampType: MBLK Batch ID: 32413 Analysis Date: 6/22/2017 Result PQL SPK value ND 5.0 930 1000 SampType: LCS	113 54 TestCode: EPA Method RunNo: 43721 SeqNo: 1377556 SPK Ref Val %REC LowLimit 93.3 54 TestCode: EPA Method	150 8015D: Gasoline Range Units: mg/Kg HighLimit %RPD RPDLimit Qual
Sample ID MB-32413 Client ID: PBS Prep Date: 6/21/2017 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID LCS-32413 Client ID: LCSS Prep Date: 6/21/2017 Analyte	1100 1000 SampType: MBLK Batch ID: 32413 Analysis Date: 6/22/2017 Result PQL SPK value ND 5.0 930 1000 SampType: LCS Batch ID: 32413 Analysis Date: 6/22/2017	TestCode: EPA Method RunNo: 43721 SeqNo: 1377556 SPK Ref Val %REC LowLimit 93.3 54 TestCode: EPA Method RunNo: 43721	8015D: Gasoline Range Units: mg/Kg HighLimit %RPD RPDLimit Qual 150 8015D: Gasoline Range
Sample ID MB-32413 Client ID: PBS Prep Date: 6/21/2017 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID LCS-32413 Client ID: LCSS Prep Date: 6/21/2017 Analyte Gasoline Range Organics (GRO)	1100 1000 SampType: MBLK Batch ID: 32413 Analysis Date: 6/22/2017 Result PQL SPK value ND 5.0 930 1000 SampType: LCS Batch ID: 32413 Analysis Date: 6/22/2017 Result PQL SPK value 26 5.0 25.00	TestCode: EPA Method RunNo: 43721 SeqNo: 1377556 SPK Ref Val %REC LowLimit 93.3 54 TestCode: EPA Method RunNo: 43721 SeqNo: 1377557 SPK Ref Val %REC LowLimit 0 102 76.4	8015D: Gasoline Range Units: mg/Kg HighLimit %RPD RPDLimit Qual 150 8015D: Gasoline Range Units: mg/Kg HighLimit %RPD RPDLimit Qual
Sample ID MB-32413 Client ID: PBS Prep Date: 6/21/2017 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID LCS-32413 Client ID: LCSS Prep Date: 6/21/2017 Analyte	1100 1000 SampType: MBLK Batch ID: 32413 Analysis Date: 6/22/2017 Result PQL SPK value ND 5.0 930 1000 SampType: LCS Batch ID: 32413 Analysis Date: 6/22/2017 Result PQL SPK value	TestCode: EPA Method RunNo: 43721 SeqNo: 1377556 SPK Ref Val %REC LowLimit 93.3 54 TestCode: EPA Method RunNo: 43721 SeqNo: 1377557 SPK Ref Val %REC LowLimit	8015D: Gasoline Range Units: mg/Kg HighLimit %RPD RPDLimit Qual 150 8015D: Gasoline Range Units: mg/Kg HighLimit %RPD RPDLimit Qual

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 Quanitative 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

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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

Analysis Date: 6/22/2017 Prep Date: 6/21/2017 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 0 116 77.8 23.97 128

Surr: BFB 1100 958.8 112 54 150

Sample ID 1706971-002AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

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) 4.6 23.19 116 77.8 128 3.78 20 1000 108 0 Surr: BFB 927.6 54 150 0

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1706971

23-Jun-17

Client:	GHD										
Project:	Perdomo										
Sample ID I			Гуре: МЕ					8021B: Volat	iles		
Client ID:	PBS	Batcl	h ID: 32 :	371	F	RunNo: 4 :	3647				
Prep Date:	6/19/2017	Analysis D	Date: 6/	20/2017	5	SeqNo: 1	375343	Units: %Red	•		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromo	ofluorobenzene	1.2		1.000		122	66.6	132			
Sample ID I	LCS-32371	Samp1	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	LCSS	Batcl	h ID: 32	371	F	RunNo: 4	3647				
Prep Date:	6/19/2017	Analysis D	Date: 6/	20/2017	5	SeqNo: 1	375344	Units: %Red	•		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromo	ofluorobenzene	1.2		1.000		125	66.6	132			
Sample ID I	MB-32355	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	PBS	Batcl	h ID: 32 :	355	F	RunNo: 4:	3647				
Prep Date:	6/19/2017	Analysis D	Date: 6/	20/2017	9	SeqNo: 1	375348	Units: mg/K	g		
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	ofluorobenzene	ND 1.3	0.10	1.000		127	66.6	132			
Juli. 4-Dioliic	Didolobenzene	1.0		1.000		121	00.0	102			
Sample ID	LCS-32355	Samp1	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: I	LCSS	Batcl	h ID: 32 :	355	F	RunNo: 4 :	3647				
Prep Date:	6/19/2017	Analysis D	Date: 6/	20/2017	S	SeqNo: 1	375349	Units: mg/K	g		
Analyte		Result	PQL		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 Xylenes, Total		1.1 3.3	0.050 0.10	1.000 3.000	0	108 109	80 80	120 120			
•	ofluorobenzene	3.3 1.2	0.10	1.000	U	122	66.6	132			
Sample ID I	MB-32413	Samp1	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	PBS	Batcl	h ID: 32 4	413	F	RunNo: 4 :	3721				
Prep Date:	6/21/2017	Analysis D	Date: 6/	22/2017	9	SeqNo: 1	377583	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene "		ND	0.050								
Ethylbenzene Xylenes, Total		ND	0.050								
vidonos Lotal		ND	0.10								

Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

E Value above quantitation range

J Analyte detected below quantitation limits

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P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

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

Units: mg/Kg Prep Date: 6/21/2017 Analysis Date: 6/22/2017 SeqNo: 1377584 SPK value SPK Ref Val %REC **RPDLimit** Analyte Result PQL LowLimit HighLimit %RPD Qual Benzene 1.0 0.025 1.000 0 103 80 120 Toluene 1.1 0.050 1.000 0 106 80 120 0 80 Ethylbenzene 0.050 1.000 109 120 1.1 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 **PQL** SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result HighLimit 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 0.048 0 129 70.9 Ethylbenzene 1.2 0.9560 132 Xylenes, Total 3.7 0.096 2.868 0 129 76.2 123 S Surr: 4-Bromofluorobenzene 0.9560 118 66.6 132 1.1

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 D	Date: 6/	/22/2017	S	SeqNo: 1	377587	Units: mg/K	(g		
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.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative 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

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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 Am Show Received By: John Caldwell 6/17/2017 9:00:00 AM Completed By: **Anne Thorne** 6/19/2017 7:57:16 AM Reviewed By: 52e 06/19/17 Chain of Custody Yes No 🔲 Not Present V 1. Custody seals intact on sample bottles? Yes 🗸 No 🗌 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? FedEx Log In No 🗌 Yes 🗹 4. Was an attempt made to cool the samples? NA □ No 🗌 5. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA 🗌 No 🗌 Sample(s) in proper container(s)? Yes 🔽 Yes 🔽 No 🗌 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No 🗌 Yes 🗔 No 🔽 NA 🔲 9. Was preservative added to bottles? Yes 🗌 No 🗀 No VOA Vials 10. VOA vials have zero headspace? Yes 11. Were any sample containers received broken? No 🗹 # of preserved bottles checked No 🗌 for pH: 12. Does paperwork match bottle labels? Yes 🗹 (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? Yes 🗹 No 🗀 13. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 14. Is it clear what analyses were requested? No 🗌 Checked by: 15. Were all holding times able to be met? Yes 🗸 (If no, notify customer for authorization.) Special Handling (if applicable) Yes 🗌 No 🗆 NA 🗸 16. Was client notified of all discrepancies with this order? Person Notified: Date | By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No Seal Date 5.9 Good Yes

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109	5-4107 st	(0	() () () () () () () () () () () () () ((O,	8) 2)	8270 (Semi	X	X	X	X	X	X	×	X	×	×	×	×	Wolm per Alba	7 421 120
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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,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1707766**

Date Reported: 7/28/2017

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al 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 RANG	GE ORGANICS	3			Analyst	: ТОМ
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 RAN	IGE				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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 14
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Lab Order **1707766**

Hall Environmental Analysis Laboratory, Inc.

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 RAN	GE ORGANICS	S				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 RAI	NGE					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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 14
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Lab Order **1707766**

Date Reported: 7/28/2017

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al 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 RAN	GE ORGANICS	S			Analyst	: ТОМ
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 RAI	NGE				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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 14
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Lab Order **1707766**

Date Reported: 7/28/2017

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: MRA
Chloride	ND	30	mg/Kg	20	7/25/2017 3:06:25 AM	32979
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS	S			Analys	:: 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 RANG	E				Analys	:: 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					Analys	:: 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

-				
Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 14
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Lab Order **1707766**

Date Reported: 7/28/2017

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	ND	30	mg/Kg	20	7/25/2017 11:44:35 AM	1 32992
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analys	t: 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 RAI	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/19/2017 10:00:31 PM	1 32840
Surr: BFB	85.3	54-150	%Rec	1	7/19/2017 10:00:31 PM	1 32840
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.023	mg/Kg	1	7/19/2017 10:00:31 PM	1 32840
Toluene	ND	0.047	mg/Kg	1	7/19/2017 10:00:31 PM	1 32840
Ethylbenzene	ND	0.047	mg/Kg	1	7/19/2017 10:00:31 PM	1 32840
Xylenes, Total	ND	0.093	mg/Kg	1	7/19/2017 10:00:31 PM	1 32840
Surr: 4-Bromofluorobenzene	100	66.6-132	%Rec	1	7/19/2017 10:00:31 PM	1 32840

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 14
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Lab Order **1707766**

Date Reported: 7/28/2017

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al 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 RAN	GE ORGANIC	S			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 RAI	NGE				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

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 14
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative 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
	D H ND	 D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Lab Order **1707766**

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al 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 RANG	GE ORGANICS	S			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 RAN	IGE				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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 14
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Lab Order **1707766**

Date Reported: 7/28/2017

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	: MRA
Chloride	260	30	mg/Kg	20	7/25/2017 1:11:28 PM	32992
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			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 RAM	NGE				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. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 8 of 14 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Lab Order **1707766**

Date Reported: 7/28/2017

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al 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 RANG	GE ORGANIC	S			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 RAN	IGE				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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 14
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Lab Order 1707766

Date Reported: 7/28/2017

Hall Environmental Analysis Laboratory, Inc.

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

Project: Perdome BMP State 1 Collection Date: 7/12/2017 1:40:00 PM 1707766-010 Matrix: SOIL Lab ID: Received Date: 7/14/2017 9:25:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	ND	30	mg/Kg	20	7/25/2017 1:36:17 PM	32992
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS	3			Analys	t: 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 RAN	GE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/20/2017 12:00:03 AM	1 32840
Surr: BFB	88.6	54-150	%Rec	1	7/20/2017 12:00:03 AM	1 32840
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	7/20/2017 12:00:03 AM	1 32840
Toluene	ND	0.048	mg/Kg	1	7/20/2017 12:00:03 AM	1 32840
Ethylbenzene	ND	0.048	mg/Kg	1	7/20/2017 12:00:03 AM	1 32840
Xylenes, Total	ND	0.096	mg/Kg	1	7/20/2017 12:00:03 AM	1 32840
Surr: 4-Bromofluorobenzene	104	66.6-132	%Rec	1	7/20/2017 12:00:03 AM	1 32840

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

Qualifiers: Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 10 of 14 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

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 Quanitative 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

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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 **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 52 50.00 104 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

LowLimit SPK value SPK Ref Val %REC %RPD **RPDLimit** Qual Analyte Result **PQL** HighLimit 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 Quanitative 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

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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

1000 90.0 Surr: BFB 900 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) 5.0 25.00 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

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Gasoline Range Organics (GRO) 620 23.26 549.9 305 77.8 128 ES Surr: BFB 25000 930.2 2670 150 S 54

SampType: MSD Sample ID 1707766-002AMSD 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

%REC Result **PQL** SPK value SPK Ref Val 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

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

P

Sample pH Not In Range

RLReporting Detection Limit Sample container temperature is out of limit as specified

Page 13 of 14

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 Analysis Date: 7/19/2017 SeqNo: 1401112 Prep Date: 7/17/2017 Units: mg/Kg Analyte **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit 0.025 1.000 0 120 Benzene 0.94 93.5 80 Toluene 0.93 0.050 1.000 0 92.8 80 120 Ethylbenzene 0.93 0.050 0 92.7 80 1.000 120 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

088210-37-071117-S Batch ID: 32840 RunNo: 44331 Client ID:

Prep Date: 7/17/2017	Analysis D	Date: 7 /	19/2017	S	SeqNo: 1	401114	Units: mg/K	(g		
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 D	oate: 7/	19/2017	S	SeqNo: 1	401115	Units: mg/k	(g		
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

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range

J Analyte detected below quantitation limits

Page 14 of 14

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: \$05-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	GHD	Work Order Numb	er: 1707766		RoptNo:	1
Received By:	Sophia Campuzano	7/14/2017 9:25:00 A	М	Sopher Chyp	ana.	
Completed By:	Erin Melendrez	7/17/2017 8:33:40 A	М	Sophu. Bayur- UM	,	•
Reviewed By:	ACX	07/17/17				
Chain of Cus	tody					
1. Custody sea	als intact on sample bottles?		Yes 🗌	No 🗌	Not Present 🗹	
2. Is Chain of C	Custody complete?		Yes 🗹	No 🗀	Not Present	
3. How was the	sample delivered?		Courier			
Log In						
4. Was an atte	empt made to cool the samp	les?	Yes 🗹	No 🗌	NA 🗆	
5. Were all sar	mples received at a tempera	ture of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗀	
6. Sample(s) in	n proper container(s)?		Yes 🗸	No 🗆		
7. Sufficient sa	mple volume for indicated te	est(s)?	Yes 🗹	No 🗌		
8. Are samples	(except VOA and ONG) pro	perly preserved?	Yes 🗹	No 🗌		
9. Was preserv	vative added to bottles?		Yes 🗌	No 🔽	NA 🗌	
10.VOA vials ha	ave zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹	
11, Were any sa	ample containers received b	roken?	Yes	No 🗹		
					# of preserved bottles checked	
	vork match bottle labels? pancies on chain of custody)		Yes 🗹	No ∐	for pH:	>12 unless noted)
	correctly identified on Chair		Yes 🗸	No 🗆	Adjusted?	- 12 dilloss flotody
	at analyses were requested	· ·	Yes 🔽	No 🗆		
	ding times able to be met? customer for authorization.)		Yes 🗸	No 🗌	Checked by:	
Special Hand	ling (if applicable)					
	otified of all discrepancies w	ith this order?	Yes 🗌	No 🗆	NA 🗹	
Person	Notified:	Date:				
By Wh	om:	Via:	n □ eMail □	Phone Fax	☐ In Person	<u>.</u>
Regard	ling:		***************************************			
Client I	nstructions:				No. of the second secon	
17. Additional re	emarks:					
18. <u>Cooler Info</u> Cooler No	Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		
C						

d Turn-Around Time: E Standard Rush ANALYSTS AROBATORY	Project Name:	18 Kindomo ST STATE H 4901 Hawki	Project #: Tel. 505-345-3975 Fax 505-345-4107		Also Braden	8) e' (Oq.	Steve Perez	20 (VC) 18 11 18 1	(GE) (GE) (GE) (GE) (GE) (GE) (GE) (GE)	t ID Container Preservative HEAL No. Type and # Type (Semi Rooms) (TO 70.0 Semi Rooms (TO 70.0 Semi Rooms) (TO 70.	10E -001		32.2	7-ts	7-1-m	37.20'	-i5',	Rio-200 / / -008	> >	-SP-TP-II-4/ V ENRISONITIN V	Rocewoy, J Date Time Remarks;	1/3/17 0/20	Style Cor 07/14/17 0925
Chain-of-Custody Record		Mailing Address: 6(2) Tropen Shod RANE	15 Section 17 87110	FINALE S. 3 -004-06/2	ien pranton Charce	☐ Level 4 (Full Validation)		□ Other		Matrix Sample Request ID	50il 5.08821037-071117-5072-17 Hocaloss-1		5-58210-37-07117-58-78-35-2	5-088210-37-071117-5FR-3-4	S08826-320307-9-10	S-088210-37-07017-S-187-20	5-088210-37-0712-58-1-15"	S-08826-37-07217-8-18-20	Z-1141-85-1211-21-280-5		Refined by A.	Markera	Kelinguished by U Receiver by. Date Time Siph Cor 07/14/17 09:25
Chain-	1	Mailing Address:	Ste 200 Albuquerque	Friorie#, 5.13	QA/QC Package:	☐ Standard	Accreditation	O NELAP	□ EDD (Type)	Date Time	711-17 1720	1725	1730	1735	2101 TI-21-7	8201	1130	1315	1335	102 01-51 FYDU	Time	4511630	13/17 (90

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,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1707A42**Date Reported: **7/28/2017**

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al 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 RANG	GE ORGANICS	3			Analyst	:: ТОМ
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 RAN	IGE				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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Lab Order **1707A42**Date Reported: **7/28/2017**

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: MRA
Chloride	ND	30	mg/Kg	20	7/25/2017 3:52:48 PM	32992
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analys	: 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 RAM	NGE				Analys	:: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/22/2017 12:59:05 AM	1 32925
Surr: BFB	85.2	54-150	%Rec	1	7/22/2017 12:59:05 AM	32925
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.023	mg/Kg	1	7/22/2017 12:59:05 AM	1 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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Lab Order **1707A42**Date Reported: **7/28/2017**

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al 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	ORGANIC	S			Analyst	:: ТОМ
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 RANG	E				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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Lab Order **1707A42**

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al 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 RANG	GE ORGANICS	S			Analyst	: ТОМ
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 RAN	IGE				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

*	Value exceeds Maximum Contaminant Level.	В	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 Page 4 of 20
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative 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
	D H ND	 D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Lab Order **1707A42**Date Reported: **7/28/2017**

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al 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 RANG	3			Analyst	: ТОМ	
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 RAN	IGE				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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	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 Page 5 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Lab Order **1707A42**Date Reported: **7/28/2017**

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	ND	30	mg/Kg	20	7/25/2017 6:46:32 PM	32999
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS	3			Analys	t: 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 RAN	GE				Analys	t: 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					Analys	t: 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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	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 Pag		
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quanitative 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	

Lab Order **1707A42**Date Reported: **7/28/2017**

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al 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	ORGANIC	S			Analyst	:: ТОМ
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 RANG	Ε				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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Lab Order **1707A42**Date Reported: **7/28/2017**

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al 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 RANG	GE ORGANIC	S			Analyst	: ТОМ
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 RAN	IGE				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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Lab Order **1707A42**Date Reported: **7/28/2017**

Hall Environmental Analysis Laboratory, Inc.

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

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 9 of 20 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit

Sample container temperature is out of limit as specified

% Recovery outside of range due to dilution or matrix

Date Reported: 7/28/2017

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	: MRA
Chloride	62	30	mg/Kg	20	7/25/2017 7:36:10 PM	32999
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	S			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 RAN	IGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/21/2017 10:54:17 PM	1 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	1 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	1 32928

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 10 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Lab Order **1707A42**Date Reported: **7/28/2017**

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al 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 RANG	E ORGANIC	S			Analyst	: ТОМ
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 RAN	GE				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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 11 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Date Reported: 7/28/2017

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al 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 RANG	GE ORGANIC	S			Analyst	: ТОМ
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 RAN	IGE				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. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 12 of 20 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Date Reported: 7/28/2017

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al 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 RANG	GE ORGANIC	S			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 RAN	IGE				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. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 13 of 20 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Date Reported: 7/28/2017

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al 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	E ORGANIC	S			Analyst	:: ТОМ
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 RANG	Ε				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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 14 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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

Date Reported: 7/28/2017

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al 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 RANG	SE ORGANICS	3			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 RAN	GE				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. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 15 of 20 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit

Sample container temperature is out of limit as specified

% Recovery outside of range due to dilution or matrix

Date Reported: 7/28/2017

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al 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 RANG	GE ORGANICS	3			Analyst	:: ТОМ
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 RAN	IGE				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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 16 of 20
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative 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.

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 Quanitative 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

Page 17 of 20

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 **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 SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 48 10 96.7 50.00 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
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

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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

1000 Surr: BFB 880 88.2 54 150

Sample ID LCS-32925 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 32925 RunNo: 44391

Analysis Date: 7/21/2017 SeqNo: 1403910 Prep Date: 7/20/2017 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) 5.0 25.00 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

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result **PQL** HighLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 960 95.7 1000 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

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) 25 5.0 25.00 98.4 76.4 125 Surr: BFB 1100 1000 105 54 150

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В
- Е Value above quantitation range
- J
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Analyte detected in the associated Method Blank

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1707A42**

28-Jul-17

Client: GHD

Project: Perdomo BMP State Com 1 H

Sample ID MB-32925 Client ID: PBS	TestCode: EPA Method 8021B: Volatiles RunNo: 44391									
Prep Date: 7/20/2017	Analysis D	ate: 7/	21/2017	S	SeqNo: 1	403945	Units: mg/K	(g		
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	SampT	ype: LC	S	Tes	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch	n ID: 32	925	R	RunNo: 44391								
Prep Date: 7/20/2017	Analysis D	oate: 7/	21/2017	S	SeqNo: 1	403946	Units: mg/K	(g	g				
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	SampT	ype: ME	BLK	Tes						
Client ID: PBS	Batch	n ID: 32	928	R	RunNo: 4					
Prep Date: 7/20/2017	Analysis D	ate: 7/	21/2017	S	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	SampT	ype: LC	S	TestCode: EPA Method 8021B: Volatiles										
Client ID: LCSS	Batch	n ID: 32	928	R	RunNo: 4									
Prep Date: 7/20/2017	Analysis D	Date: 7/	21/2017	S	SeqNo: 1	404015	Units: mg/k	(g		Qual				
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 Quanitative 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

1 IIN I D

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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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

Received By:	Andy Jansson					
	Alluy Jalissoli	7/18/2017 8:40:00 AM		wy/row		
Completed By:	Ashley Gallegos	7/20/2017 9:29:28 AM		A		
Reviewed By:	ENM	7/20/17		. ()		
		-, , , ,				
Chain of Cus	<u>tody</u>					
1. Custody sea	ls intact on sample bottles	?	Yes 🗌	No 🗆	Not Present 🗹	
2. Is Chain of C	Custody complete?		Yes 🗹	No 🗆	Not Present	
3. How was the	sample delivered?		<u>Client</u>			
<u>Log In</u>						
	mpt made to cool the sam	ples?	Yes 🗹	No 🗆	na \square	
5. Were all san	aples received at a tempe	rature of >0° C to 6.0°C	Yes 🔽	No 🗆	NA 🗆	
6. Sample(s) in	n proper container(s)?		Yes 🗹	No 🗆		
7. Sufficient sai	mple volume for indicated	test(s)?	Yes 🗹	No 🗆		
8. Are samples	(except VOA and ONG) p	roperly preserved?	Yes 🗹	No 🗔		
9. Was preserv	ative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
10.VOA vials ha	ve zero headspace?		Yes 🗌	No 🗆	No VOA Vials 🗹	
11. Were any sa	ample containers received	broken?	Yes	No 🗹	# of preserved	
40.5				N- □	bottles checked	
	vork match bottle labels? pancies on chain of custoo	dy)	Yes 🗹	No L.	for pH: (<2 o	r >12 unless noted)
	correctly identified on Ch		Yes 🗹	No 🗆	Adjusted?	
14. Is it clear wh	at analyses were requeste	ed?	Yes 🗹	No 🗌		
	ding times able to be met? customer for authorization		Yes 🗹	No 🗆	Checked by:	
(II IIO, IIOUIY	customer for authorization	.,)				
Special Hand	ling (if applicable)					
16, Was client n	otified of all discrepancies	with this order?	Yes 🗌	No 🗆	NA 🗹	
Person	Notified:	Date		CHEROLOGIC MONTON AND AND AND AND AND AND AND AND AND AN		
By Wh	om:	Via:	eMail	Phone 🗌 Fax	In Person	
Regard	ling:					1
Client I	Instructions:		na dinana dinamanda ni nani kanda mada na manana na		Commission of the Commission o	·
17. Additional re	emarks:					
18. <u>Cooler Info</u>	rmation					
Cooler No		Seal Intact Seal No S	Seal Date	Signed By		
1	4.8 Good	Not Present	· · · · · · · · · · · · · · ·			

P. 100 Z

Turn-Ayound Time: Project Name: Project)	HALL ENVIRONMENTAL	www.hallanvironmental.com	kins NE - Albuquerque, NM 87109		Anal)S'*C)d' ^z	(1 +0 (V 808 / 00/°6(or 50 or 10	EDB (Methor RCRA 8 Me RCRA 8 Me Anions (F,C 8081 Pestic 8270 (Semi-Romina RCO) (Semi-RCO) (Semi-RCO	X					>					
Y Record Turn-Around Time: Standard Rush Project Name: Project Name: Project Name: Project Name: Project Name		134		01 Haw	al. 505-:					30 \ D	4Đ)	83108 H9T	X				\searrow						
9 Record Turn-Around Time: 12 Standard Rush Project Name: 13 Sampler: JEWE (2 F E Z On Ice: XFes On No Sampler: JEWE (2 F E Z On Ice: XFes On No Sampler: JEWE (2 F E Z On Ice: XFes On No Sampler: JEWE (2 F E Z On Ice: XFes On No Sampler: JEWE (2 F E Z Sampler: JEWE (2 F E Z On Ice: XFes On No Sampler: JEWE (2 F E Z STON SITSEMPLE S-2 (NE 4/68) Type The Ice On Ice STON SITSEMPLE S-2 (NE 4/68) TWE The Ice On Ice STON SITSEMPLE S-2 (NE 4/68) TWE The Ice On Ice STON SITSEMPLE S-2 (NE 4/68) TWE The Ice On Ice STON SITSEMPLE S-2 (NE 4/68) TWE The Ice On Ice STON SITSEMPLE S-2 (NE 4/68) TWE The Ice On Ice STON SITSEMPLE S-2 (NE 4/68) TWE The Ice On Ice STON SITSEMPLE S-2 (NE 4/68) TWE Ice On Ice STON SITSEMPLE S-2 (NE 4/68) TWE Ice On Ice STON SITSEMPLE S-2 (NE 4/68) TWE Ice On Ice STON SITSEMPLE S-2 (NE 4/68) TWE Ice On Ice STON SITSEMPLE S-2 (NE 4/68) TWE Ice On Ice STON SITSEMPLE S-2 (NE 4/68) TWE Ice On Ice STON SITSEMPLE S-2 (NE 4/68) TWE Ice On Ice STON SITSEMPLE S-2 (NE 4/68) TWE Ice On Ice STON SITSEMPLE S-2 (NE 4/68) TWE ICE ON ICE ON ICE STON SITSEMPLE S-3 (NE 4/68) TWE ICE ON ICE ON ICE STON SITSEMPLE S-3 (NE 4/68) TWE ICE ON				49	Ĭ									~	/	\	0				emark		
9 Record 72 99ch.com 14 (Full Validation) 14 (Full Validation) 19 Request ID 87-07/3/7-58-18-16-2 937-07/3/7-58-18-16-2 9-37-07/3/7-58-18-18-2 9-37-07/3/7-58-18-18-2	onnd Time:		Name:	ing CMP State Com #14	#	88210/37	Manager:	Alan Brandon		Teve (érez	Temperature: $\mathcal{U}_{i}\mathcal{G}^{\mathcal{C}}$	Preservative Type	210-	10- 20		0-019-	101 JOIN-1				Date	1121/2/1817	Date
9 Record 72 99ch.com 14 (Full Validation) 14 (Full Validation) 19 Request ID 87-01317-8P-18-18-18 87-071317-8P-18-18-18-18-18-18-18-18-18-18-18-18-18-	Turn-Arc	Stan	Project 1	fed	Project #	0,	Project ≀			Sampler On Ice:	Sample	Contai Type ar	7	15 20%	>		\geqslant				Received t	Ch	Received
Mailing Adac F Adams of Adams	Chain-of-Custody Record	GHP-Albuanerane		00.1		Phone #: 505 - 844- 0672	email or Fax#: Alan (Scand on Och). Com	QA/QC Package:		□ Other	EDD (Type)	Time Matrix	1445 STR8211-141-14	5,1	1	/ -	\nearrow					D	



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,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: 1708941

Date Reported: 8/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1708941

Project: Perdomo BMP State 1H

Lab ID: 1708941-001 **Collection Date:** 8/10/2017 3:15:00 PM

Client Sample ID: S-088210-37-081017-SP-TP-23-6' Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	lyst: MRA
Chloride	420	30	mg/Kg	20	8/23/2017 11:14:39	AM 33512
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	S			Ana	lyst: TOM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	8/18/2017 4:11:20 I	PM 33429
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/18/2017 4:11:20 I	PM 33429
Surr: DNOP	88.9	70-130	%Rec	1	8/18/2017 4:11:20 I	PM 33429
EPA METHOD 8015D: GASOLINE RANG	E				Ana	lyst: 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					Ana	lyst: 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 **Collection Date:** 8/10/2017 3:17:00 PM

Client Sample ID: S-088210-37-081017-SP-TP-23-8' Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: MRA
Chloride	430	30	mg/Kg	20	8/23/2017 11:51:53	3 AM 33512
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS	S			Ana	alyst: 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 RANG	iΕ				Ana	alyst: 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					Ana	alyst: 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

Unanners: " value exceeds Maximum Contaminant Level	Oualifiers:	*	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 Quanitative 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 Page 1 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: 1708941

Date Reported: 8/24/2017

Hall Environmental Analysis Laboratory, Inc.

Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

Not Detected at the Reporting Limit

Practical Quanitative Limit

ND

POL

CLIENT: GHD Lab Order: 1708941 Project: Perdomo BMP State 1H 1708941-003 **Collection Date:** 8/10/2017 3:19:00 PM Lab ID: Matrix: SOIL **Client Sample ID:** S-088210-37-081017-SP-TP-24-2' **Analyses** Result **PQL Qual Units DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 300 30 mg/Kg 8/23/2017 12:04:18 PM 33512 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND mg/Kg 8/18/2017 4:55:42 PM 10 33429 Motor Oil Range Organics (MRO) ND 50 mg/Kg 8/18/2017 4:55:42 PM 33429 Surr: DNOP 87.5 70-130 %Rec 8/18/2017 4:55:42 PM 33429 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 8/17/2017 1:40:02 PM Gasoline Range Organics (GRO) ND 4.8 mg/Kg 33396 Surr: BFB 89.2 54-150 %Rec 8/17/2017 1:40:02 PM 33396 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 8/17/2017 1:40:02 PM 33396 Toluene ND 0.048 mg/Kg 8/17/2017 1:40:02 PM 33396 1 Ethylbenzene ND 0.048 mg/Kg 8/17/2017 1:40:02 PM 33396 Xylenes, Total ND 0.096 mg/Kg 8/17/2017 1:40:02 PM 33396 Surr: 4-Bromofluorobenzene 97.9 66.6-132 %Rec 8/17/2017 1:40:02 PM 33396 Lab ID: 1708941-004 **Collection Date:** 8/10/2017 3:22:00 PM Client Sample ID: S-088210-37-081017-SP-TP-24-4' Matrix: SOIL Analyses Result **POL Oual Units DF Date Analyzed Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA 30 mg/Kg 8/23/2017 12:41:32 PM 33512 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM ND 8/18/2017 5:18:06 PM Diesel Range Organics (DRO) 9.6 mg/Kg 33429 Motor Oil Range Organics (MRO) ND mg/Kg 8/18/2017 5:18:06 PM 33429 48 Surr: DNOP 8/18/2017 5:18:06 PM 33429 75.3 70-130 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5.0 mg/Kg 8/17/2017 2:03:48 PM 33396 Surr: BFB 87.8 54-150 %Rec 8/17/2017 2:03:48 PM 33396 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 mg/Kg 8/17/2017 2:03:48 PM 33396 Toluene ND 0.050 mg/Kg 8/17/2017 2:03:48 PM 33396 Ethylbenzene ND 0.050 mg/Kg 8/17/2017 2:03:48 PM 33396 ND mg/Kg Xylenes, Total 0.10 8/17/2017 2:03:48 PM 33396 Surr: 4-Bromofluorobenzene 99.1 66.6-132 %Rec 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. В Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Ε Value above quantitation range Analyte detected below quantitation limits Page 2 of 15

J

P

RL

W

Sample pH Not In Range

Reporting Detection Limit

Sample container temperature is out of limit as specified

Lab Order: 1708941

Hall Environmental Analysis Laboratory, Inc.

POL

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Date Reported: 8/24/2017

CLIENT: GHD Lab Order: 1708941 Project: Perdomo BMP State 1H 1708941-005 **Collection Date:** 8/10/2017 3:32:00 PM Lab ID: Matrix: SOIL **Client Sample ID:** S-088210-37-081017-SP-TP-25-2' **Analyses** Result **PQL Qual Units DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 210 30 mg/Kg 8/23/2017 12:53:56 PM 33512 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND mg/Kg 8/21/2017 3:29:44 PM 10 33429 Motor Oil Range Organics (MRO) ND 50 mg/Kg 8/21/2017 3:29:44 PM 33429 Surr: DNOP 93.3 70-130 %Rec 8/21/2017 3:29:44 PM 33429 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 8/17/2017 2:27:32 PM Gasoline Range Organics (GRO) ND 4.6 mg/Kg 33396 Surr: BFB 88.3 54-150 %Rec 8/17/2017 2:27:32 PM 33396 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.023 mg/Kg 8/17/2017 2:27:32 PM 33396 Toluene ND 0.046 mg/Kg 8/17/2017 2:27:32 PM 1 33396 Ethylbenzene ND 0.046 mg/Kg 8/17/2017 2:27:32 PM 33396 Xylenes, Total ND 0.091 mg/Kg 8/17/2017 2:27:32 PM 33396 Surr: 4-Bromofluorobenzene 99.8 66.6-132 %Rec 8/17/2017 2:27:32 PM 33396 Lab ID: 1708941-006 **Collection Date:** 8/10/2017 3:34:00 PM Client Sample ID: S-088210-37-081017-SP-TP-25-4' Matrix: SOIL Analyses Result **POL Oual Units DF Date Analyzed Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA 30 mg/Kg 8/23/2017 1:06:20 PM 33512 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM ND 8/21/2017 3:51:46 PM Diesel Range Organics (DRO) 9.7 mg/Kg 33429 Motor Oil Range Organics (MRO) ND mg/Kg 8/21/2017 3:51:46 PM 33429 49 Surr: DNOP 8/21/2017 3:51:46 PM 33429 84.1 70-130 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.7 mg/Kg 8/17/2017 2:51:21 PM 33396 Surr: BFB 87.7 54-150 %Rec 8/17/2017 2:51:21 PM 33396 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 8/17/2017 2:51:21 PM 33396 Toluene ND 0.047 mg/Kg 8/17/2017 2:51:21 PM 33396 Ethylbenzene ND 0.047 mg/Kg 8/17/2017 2:51:21 PM 33396 ND mg/Kg Xylenes, Total 0.095 8/17/2017 2:51:21 PM 33396 Surr: 4-Bromofluorobenzene 99.6 66.6-132 %Rec 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. В Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Ε Value above quantitation range Analyte detected below quantitation limits Page 3 of 15 Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range

RL

W

Reporting Detection Limit

Sample container temperature is out of limit as specified

Lab Order: 1708941

Date Reported: 8/24/2017

Hall Environmental Analysis Laboratory, Inc.

Lab Order: 1708941

GHD Project: Perdomo BMP State 1H

CLIENT:

Lab ID: 1708941-007 **Collection Date:** 8/10/2017 3:36:00 PM

Client Sample ID: S-088210-37-081017-SP-TP-26-2' Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: MRA
Chloride	320	30	mg/Kg	20	8/23/2017 1:18:44	PM 33512
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	3			Ana	alyst: 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 RANG	E				Ana	alyst: 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					Ana	alyst: 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 **Collection Date:** 8/10/2017 3:38:00 PM

Client Sample ID: S-088210-37-081017-SP-TP-26-4' Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: MRA
Chloride	400	30	mg/Kg	20	8/23/2017 6:16:33	PM 33527
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	S			Ana	alyst: 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 RANG	E				Ana	alyst: 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					Ana	alyst: 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

Unanners: " value exceeds Maximum Contaminant Level	Oualifiers:	*	Value exceeds Maximum Contaminant Level.
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- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 - % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order: 1708941

Date Reported: 8/24/2017

Hall Environmental Analysis Laboratory, Inc.

POL

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

CLIENT: GHD Lab Order: 1708941 Project: Perdomo BMP State 1H 1708941-009 **Collection Date:** 8/10/2017 3:40:00 PM Lab ID: Client Sample ID: S-088210-37-081017-SP-TP-27-2' Matrix: SOIL **Analyses** Result **PQL Qual Units DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA 8/23/2017 6:53:45 PM Chloride 340 30 mg/Kg 33527 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.9 mg/Kg 8/21/2017 5:02:22 PM 33429 Motor Oil Range Organics (MRO) ND 50 mg/Kg 8/21/2017 5:02:22 PM 33429 Surr: DNOP 95.5 70-130 %Rec 8/21/2017 5:02:22 PM 33429 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 8/19/2017 2:23:56 AM Gasoline Range Organics (GRO) ND 4.7 mg/Kg 33424 Surr: BFB 79.4 54-150 %Rec 8/19/2017 2:23:56 AM 33424 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 8/19/2017 2:23:56 AM 33424 Toluene ND 0.047 mg/Kg 8/19/2017 2:23:56 AM 33424 Ethylbenzene ND 0.047 mg/Kg 8/19/2017 2:23:56 AM 33424 Xylenes, Total ND 0.094 mg/Kg 8/19/2017 2:23:56 AM 33424 Surr: 4-Bromofluorobenzene 112 66.6-132 %Rec 8/19/2017 2:23:56 AM 33424 Lab ID: 1708941-010 **Collection Date:** 8/10/2017 3:42:00 PM Client Sample ID: S-088210-37-081017-SP-TP-27-4' Matrix: SOIL Analyses Result **POL Oual Units DF Date Analyzed Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA 30 mg/Kg 8/23/2017 7:06:10 PM 33527 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM ND 8/18/2017 7:33:17 PM Diesel Range Organics (DRO) 9.6 mg/Kg 33429 Motor Oil Range Organics (MRO) ND mg/Kg 8/18/2017 7:33:17 PM 33429 48 Surr: DNOP 8/18/2017 7:33:17 PM 33429 73.0 70-130 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.8 mg/Kg 8/19/2017 2:47:46 AM 33424 82.2 Surr: BFB 54-150 %Rec 8/19/2017 2:47:46 AM 33424 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 8/19/2017 2:47:46 AM 33424 Toluene ND 0.048 mg/Kg 8/19/2017 2:47:46 AM 33424 Ethylbenzene ND 0.048 mg/Kg 8/19/2017 2:47:46 AM 33424 ND 8/19/2017 2:47:46 AM 33424 Xylenes, Total 0.095 mg/Kg Surr: 4-Bromofluorobenzene 115 66.6-132 %Rec 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. В Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Ε Value above quantitation range Analyte detected below quantitation limits Page 5 of 15 Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range

RL

W

Reporting Detection Limit

Sample container temperature is out of limit as specified

Lab Order: 1708941

Date Reported: 8/24/2017

1708941

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order:

Project: Perdomo BMP State 1H

Lab ID: 1708941-011 **Collection Date:** 8/10/2017 3:45:00 PM

Client Sample ID: S-088210-37-081017-SP-TP-28-2' Matrix: SOIL

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

Lab ID: 1708941-012 **Collection Date:** 8/10/2017 3:47:00 PM

Client Sample ID: S-088210-37-081017-SP-TP-28-4' Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: MRA
Chloride	ND	30	mg/Kg	20	8/23/2017 7:30:57	PM 33527
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	S			Ana	alyst: 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 RANG	E				Ana	alyst: 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					Ana	alyst: 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

Unanners: " value exceeds Maximum Contaminant Level	Oualifiers:	*	Value exceeds Maximum Contaminant Level.
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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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 Page 6 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: 1708941

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/24/2017

CLIENT: GHD Lab Order: 1708941 **Project:** Perdomo BMP State 1H

Lab ID: 1708941-013 **Collection Date:** 8/10/2017 3:55:00 PM

Client Sample ID: S-088210-37-081017-SP-TP-29-2' Matrix: SOIL

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batcl	h ID
EPA METHOD 300.0: ANIONS						Ana	alyst: M	IRA
Chloride	ND	30		mg/Kg	20	8/23/2017 8:08:12	PM 33	3527
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S				Ana	alyst: T	ОМ
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/18/2017 8:40:20	PM 33	3429
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/18/2017 8:40:20	PM 33	3429
Surr: DNOP	57.7	70-130	S	%Rec	1	8/18/2017 8:40:20	PM 33	3429
EPA METHOD 8015D: GASOLINE RANGE	<u> </u>					Ana	alyst: N	SB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/19/2017 3:59:25	AM 33	3424
Surr: BFB	80.4	54-150		%Rec	1	8/19/2017 3:59:25	AM 3	3424
EPA METHOD 8021B: VOLATILES						Ana	alyst: N	SB
Benzene	ND	0.024		mg/Kg	1	8/19/2017 3:59:25	AM 33	3424
Toluene	ND	0.048		mg/Kg	1	8/19/2017 3:59:25	AM 33	3424
Ethylbenzene	ND	0.048		mg/Kg	1	8/19/2017 3:59:25	AM 33	3424
Xylenes, Total	ND	0.095		mg/Kg	1	8/19/2017 3:59:25	AM 33	3424
Surr: 4-Bromofluorobenzene	112	66.6-132		%Rec	1	8/19/2017 3:59:25	AM 33	3424

Lab ID: 1708941-014 **Collection Date:** 8/10/2017 3:57:00 PM

Client Sample ID: S-088210-37-081017-SP-TP-29-4' Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: MRA
Chloride	540	30	mg/Kg	20	8/23/2017 8:20:36	PM 33527
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS	S			Ana	alyst: 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 RANG	iΕ				Ana	alyst: 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					Ana	alyst: 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

Unanners: " value exceeds Maximum Contaminant Level	Oualifiers:	*	Value exceeds Maximum Contaminant Level.
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- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 - % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 7 of 15
- Sample pH Not In Range P
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order: 1708941 Date Reported: 8/24/2017

Hall Environmental Analysis Laboratory, Inc.

Lab Order: 1708941

GHD Project: Perdomo BMP State 1H

CLIENT:

Lab ID: 1708941-015 **Collection Date:** 8/10/2017 4:00:00 PM

Client Sample ID: S-088210-37-081017-SP-TP-30-2' Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed I	Batch ID
EPA METHOD 300.0: ANIONS					Analys	st: MRA
Chloride	ND	30	mg/Kg	20	8/23/2017 8:33:00 PM	33527
EPA METHOD 8015M/D: DIESEL RANGE (ORGANIC	S			Analys	st: 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					Analys	st: 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					Analys	st: 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 **Collection Date:** 8/10/2017 4:02:00 PM

Client Sample ID: S-088210-37-081017-SP-TP-30-4' Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	alyst: MRA
Chloride	32	30	mg/Kg	20	8/23/2017 8:45:24	PM 33527
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANIC	S			Ana	alyst: 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 RANG	Ε				Ana	alyst: 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					Ana	alyst: 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

Unanners: " value exceeds Maximum Contaminant Level	Oualifiers:	*	Value exceeds Maximum Contaminant Level.
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- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 - % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 8 of 15
- Sample pH Not In Range P
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

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: Ics 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: Ics 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.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative 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

D C 1 HN I D

Page 9 of 15

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: 1708941

24-Aug-17

Client: GHD

Sample ID MB-33429

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) 10 O 50 50.00 101 73.2 114 Surr: DNOP 4.8 5.000 95.0 130

Client ID: PBS Batch ID: 33429 RunNo: 45041 Analysis Date: 8/18/2017 Prep Date: 8/17/2017 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 ND 50 Motor Oil Range Organics (MRO) Surr: DNOP 9.0 10.00 90.4 130

TestCode: EPA Method 8015M/D: Diesel Range Organics

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 SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 3.9 5.000 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 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

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Page 10 of 15

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

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 SegNo: 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 Quanitative 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

Page 11 of 15

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 5.0 25.00 94.7 76.4 125

Gasoline Range Organics (GRO) Surr: BFB 980 1000 97 7 54 150

SampType: MS Sample ID 1708941-007AMS 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

PQL %RPD **RPDLimit** Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit Qual Gasoline Range Organics (GRO) 26 23.97 110 77.8 128

Surr: BFB 920 958.8 95.9 150 54

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

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 4.6 106 77.8 128 7.20 20 23.04 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: Batch ID: 33452 **PBS** RunNo: 45097

Prep Date: 8/18/2017 Analysis Date: 8/21/2017 SeqNo: 1428026 Units: %Rec

Analyte SPK value SPK Ref Val %RPD **RPDLimit** Result %REC LowLimit HighLimit Qual

1000 54 Surr: BFB 840 150 84.3

Sample ID LCS-33452 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: Batch ID: 33452 RunNo: 45097 LCSS

Prep Date: Analysis Date: 8/21/2017 SeqNo: 1428027 8/18/2017 Units: %Rec

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

920 1000 92.2 54 150 Surr: BFB

Qualifiers:

Value exceeds Maximum Contaminant Level. В Analyte detected in the associated Method Blank

D Sample Diluted Due to Matrix Е Value above quantitation range

> J Analyte detected below quantitation limits Page 12 of 15

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

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

Analysis Date: 8/17/2017 Prep Date: 8/16/2017 SeqNo: 1425280 Units: mg/Kg Analyte **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit 80 0.025 1.000 0 120 Benzene 0.86 86.3 Toluene 0.88 0.050 1.000 0 87.9 80 120 Ethylbenzene 0.90 0.050 0 90.4 80 1.000 120 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

Batch ID: 33396 RunNo: 45025 Client ID: S-088210-37-081017

Prep Date: 8/16/2017	Analysis D	Date: 8/	/17/2017	S	SeqNo: 1	425282	Units: mg/K	(g		
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 D	oate: 8/	17/2017	S	SeqNo: 1	425283	Units: mg/K	(g		
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

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 13 of 15

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 SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: 4-Bromofluorobenzene 66.6 1.0 1.000 103 132

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

SPK value SPK Ref Val %REC Analyte Result 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: Batch ID: 33424 RunNo: 45051

Analysis Date: 8/18/2017 Prep Date: 8/17/2017 SeqNo: 1427249 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result HighLimit Qual ND 0.025 Benzene Toluene ND 0.050 Ethylbenzene ND 0.050

Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.000 115 66.6 132 1.1

TestCode: EPA Method 8021B: Volatiles Sample ID LCS-33424 SampType: LCS

Client ID: LCSS Batch ID: 33424 RunNo: 45051

Prep Date: 8/17/2017 Analysis Date: 8/18/2017 SeqNo: 1427252 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Benzene 1.1 0.025 1.000 0 106 80 120 0.050 1.000 0 105 80 120 Toluene 1.0 0.050 0 104 80 Ethylbenzene 1.0 1.000 120 Xylenes, Total 0.10 3.000 0 108 80 3.2 120 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: Analysis Date: 8/18/2017 SeqNo: 1427275 Units: %Rec 8/17/2017

SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result PQI

RL

Surr: 4-Bromofluorobenzene 1.1 1.000 114 66.6 132

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

Reporting Detection Limit

J Analyte detected below quantitation limits

P Sample pH Not In Range

Sample container temperature is out of limit as specified

Page 14 of 15

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 13

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 Quanitative 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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

EL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Client Name:	GHD	Work Order Number	er: 1708941	·	RcptNo:	1
B				a b	_	
Received By:	Isaiah Ortiz	8/15/2017 8:45:00 Al	M	I	_	
Completed By:	Ashley Gallegos	8/16/2017 8:59:50 AI	M	A		
Reviewed By:	ENM	8/16/17		•		
Chain of Cus	<u>tody</u>					
1. Custody sea	ils intact on sample bottl	es?	Yes 🗌	No 🗆	Not Present	
2. Is Chain of C	Custody complete?		Yes 🗸	No 🗌	Not Present	
3. How was the	sample delivered?		Courier			
<u>Log In</u>						
4. Was an atte	mpt made to cool the sa	mples?	Yes 🔽	No 🗌	NA 🗌	
5. Were all san	nples received at a temp	erature of >0° C to 6.0°C	Yes 🗸	No 🗀	na 🗆	
6. Sample(s) in	n proper container(s)?		Yes 🗹	No 🗆		
7. Sufficient sar	mple volume for indicate	d test(s)?	Yes 🗹	No 🗆		
8. Are samples	(except VOA and ONG)	properly preserved?	Yes 🗹	No 🗌		
9. Was preserv	ative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
10.VOA vials ha	ve zero headspace?		Yes 🗌	No 🗆	No VOA Vials 🗹	
11. Were any sa	mple containers receive	d broken?	Yes 🗆	No 🗹	# of preserved	
12. Does paperw	ork match bottle labels?		Yes 🔽	No 🗆	bottles checked for pH:	
	pancies on chain of custo	••				r >12 unless noted)
	correctly identified on C	·	Yes 🗹	No 🗀	Adjusted?	
	at analyses were reques		Yes 🗹	No ∐ ┆	06	
	ling times able to be met customer for authorization		Yes 🔽	No 🗀 .	Checked by:	
Special Handl	ling (if applicable)					
	otified of all discrepancie	s with this order?	Yes 🗌	No 🗌	NA 🗹	
Person	Notified:	Date				. :
By Who	om:	Via:	eMail 1	Phone 🗌 Fax	In Person	
Regard	ing:			The second secon		: :
Client Ir	nstructions:			The second secon		
17. Additional red	marks:					
18. <u>Cooler Infor</u> Cooler No	Temp °C Conditio		Seal Date	Signed By		
[1	0.9 Good	Yes				
D 1 C	<u> </u>	: <u>:</u>				

0	Shain	-of-C	Chain-of-Custody Record	Turn-Around Time:	ime:	7.00	I	B				-	i	- 3		1
Client		AM. Albumerane		Standard	Rush E	2		U	4 2	ANAL SENVIKONMENIAL	2	Y	5 6	2 5	2	A S
		2		Project Name:			U			A Pallo	770) lot	9	2	2	VANAL 1915 LABORALORY
Mailing	, Address	120	Mailing Address: 421 Tollin Short RUNK Shill	prolon	10 BMP S	Prodomo BMP State# 14	94	4901 Hawkins NE -	Wins N		pada	Albuquerque, NM 87109	N	37109		
Albusines.	Ind Con	NN		Project #:	1010100		ĭ	Tel. 505-345-3975	345-38		Fax	505-345-4107	15-41	20		
Phone #:	#	305.8%	5-884-0672	S	U68510/51					Ana	lysis	Analysis Request	ts:		B	
email o	email or Fax# ∭e_	Non B	Breadon Bald. 10 M	Project Manag	er:		-	(0)			(10)		H			
OA/QC	OA/QC Package:		U Level 4 (Full Validation)	Alen Brandan	Tandas			AM \ O		(SW	os'tod	bcB,a			0.0	
Accreditation	litation	1		Sampler: TT	Sur Paris	728				IS OZ	NO ₂ ,F	Z808			OE	(1)
NELAP	AF	□ Other		On Ice: P	EX ses	□ No	-		_	_	-	2/5	(\D	1	2) ic
□ EDC	□ EDD (Type)			Sample Temperature:	erature: (5.0			-		_			4	1) Y)
Date	Time	Matrix	Sample Request (D	Container F	Preservative Type	HEAL NO. 1	BTEX + MT	82108 H9T orisM) H9T	EDB (Wetho	PAH's (831	O,3) snoinA	olise9 1808	(OV) 80828 im92) 0728	2) 1508	399)	Pir Bubbles
10-01	15/5		5085210-37-081017-54-725-6"	G-dess-1	1Xt	100-		×						X	X	
	1517	-	5-088210-37-081017-58-1723-9"	7	1	-002									1	
	1519		F38209-37-081017-5P-77-24-2			-003										
	1522		50882037-081017-51-17-04-4"			p00-			H							
	133		508721037-0810175P-#-25-2			500-							-		-	
	1534		5088210-37-081017-9-77-25-4			-000							-			
	536		TO8821037-1041017-5P-118-26-2			100-								-		
	1538		508219.37-081917.5F-7F-76-76-4			800-			Ξ					-		
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	四五		5082m.17-08m.7-SP+P-27.4"			010-			Ξ	H		Ē				
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7	(87)	7	KORTO 37.081017.58-71-28-47	7	, \	-0/2				H				>	0	
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The state of the s	Time: "	Relinquished by:		Received by:	3.4	Date Time 8/5/17 8:45										
-	i necessary.	samples sub	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited aboratories.	ntracted to other accr	edited aboratorie	s. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	posspility /	Ary sub-c	putracted	data will	de clearly	Profated	on the	analytic	al report.	k

Air Bubbles (Y or N) ANALYSIS LABORATORY HALL ENVIRONMENTAL 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 (AOV-ima2) 07S8 www.hallenvironmental.com Analysis Request (AOV) 808S8 8081 Pesticides / 8082 PCB's Anions (F,CI,NO3,NO2,PO4,SO4) RCRA 8 Metals Tel. 505-345-3975 (SMIS 0758 to 0168) 2'HA9 EDB (Method 504.1) (1.814 bodteM) H9T TPH 8015B (GRO / DRO / MRO) Remarks: MTBE + TPH (Gas only) BTEX + MTBE + TMB's (8021) 34.8 046801 010--014 -0/3 -05 HEAL No. Perdomo BMP Tat #17 Turn-Around Time: Car Turn two line 2 Sample Temperature: 0.9 Container Preservative
Type and # Type Mon Brandon 088210/37 Project Manager: Project Name: 4020/15-1 Sampler: Project #: On Ice: 5088210-37-031017-5P-17-15-2 5-18-210-57-08107-58-71-30-2 TO8800-37-08007.50-18-24 ☐ Level 4 (Full Validation) -PS-210-77-128017-128-19-14 Sample Request ID Chain-of-Custody Record Relinquished/by ラナン・大一人 □ Other Matrix 50 Phone #: 505 Mailing Address: Time email or Fax# QA/QC Package ☐ EDD (Type) 046 Accreditation □ Standard Time O NELAP Client: / Date Date

ed 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,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: 1708H71

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/11/2017

CLIENT: GHD Lab Order: 1708H71

Project: Perdom BMP State No 1H

Lab ID: 1708H71-001 **Collection Date:** 8/29/2017 4:05:00 PM

Client Sample ID: S-088210-37-082917-SP-TP-33-4' Matrix: SOIL

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

Lab ID: 1708H71-002 **Collection Date:** 8/29/2017 4:08:00 PM

Client Sample ID: S-088210-37-082917-SP-TP-34-4' Matrix: SOIL

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

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

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 Quanitative 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 Page 1 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: 1708H71

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/11/2017

CLIENT: GHD Lab Order: 1708H71 Project: Perdom BMP State No 1H 1708H71-003 **Collection Date:** 8/29/2017 4:12:00 PM Lab ID: Client Sample ID: S-088210-37-082917-SP-TP-35-4' Matrix: SOIL **Analyses** Result **PQL Qual Units DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 270 30 mg/Kg 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 9/5/2017 6:53:48 PM 33675 Motor Oil Range Organics (MRO) ND 49 mg/Kg 9/5/2017 6:53:48 PM 33675 1 Surr: DNOP 87.5 70-130 %Rec 9/5/2017 6:53:48 PM 33675 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.9 mg/Kg 9/5/2017 2:36:32 PM 33670 Surr: BFB 89.5 54-150 %Rec 9/5/2017 2:36:32 PM 33670 **EPA METHOD 8021B: VOLATILES** Analyst: NSB 9/5/2017 2:36:32 PM Benzene ND 0.025 mg/Kg 33670 Toluene ND 0.049 mg/Kg 9/5/2017 2:36:32 PM 33670 1 Ethylbenzene ND 0.049 mg/Kg 9/5/2017 2:36:32 PM 33670 ND Xylenes, Total 0.098 mg/Kg 9/5/2017 2:36:32 PM 33670 Surr: 4-Bromofluorobenzene 97.9 66.6-132 %Rec 9/5/2017 2:36:32 PM 33670 Lab ID: 1708H71-004 **Collection Date:** 8/29/2017 4:18:00 PM Client Sample ID: S-088210-37-082917-SP-TP-36-4' Matrix: SOIL Analyses Result **POL Oual Units DF Date Analyzed Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA 30 mg/Kg 9/7/2017 9:06:38 PM 33760 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM ND 9/5/2017 7:16:05 PM Diesel Range Organics (DRO) 9.5 mg/Kg 1 33675 Motor Oil Range Organics (MRO) ND 47 mg/Kg 9/5/2017 7:16:05 PM 33675 Surr: DNOP 70-130 9/5/2017 7:16:05 PM 33675 81.2 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.7 mg/Kg 9/5/2017 3:00:12 PM 33670 Surr: BFB 89.6 54-150 %Rec 9/5/2017 3:00:12 PM 33670 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 9/5/2017 3:00:12 PM 33670 Toluene ND 0.047 mg/Kg 9/5/2017 3:00:12 PM 33670 Ethylbenzene ND 0.047 mg/Kg 9/5/2017 3:00:12 PM 33670 ND mg/Kg Xylenes, Total 0.095 9/5/2017 3:00:12 PM 33670 Surr: 4-Bromofluorobenzene 98.2 66.6-132 %Rec 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.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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 Page 2 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: **1708H71**Date Reported: **9/11/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1708H71

Project: Perdom BMP State No 1H

Lab ID: 1708H71-005 **Collection Date:** 8/29/2017 4:26:00 PM

Client Sample ID: S-088210-37-082917-SP-TP-39-4' Matrix: SOIL

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

Lab ID: 1708H71-006 **Collection Date:** 8/29/2017 4:30:00 PM

Client Sample ID: S-088210-37-082917-SP-TP-40-4' Matrix: SOIL

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

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

Oualifiers:	*	Value exceeds Maximum Contaminant Level.
Quaimers:	•••	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 Quanitative 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 Page 3 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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 Quanitative 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

Page 4 of 9

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 SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: DNOP 99.3 5.0 5.000 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

SPK value SPK Ref Val %REC Analyte Result LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: DNOP 10.00 108 130

Sample ID LCS-33675 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **LCSS** Batch ID: 33675 RunNo: 45404

Prep Date: Analysis Date: 9/5/2017 SeqNo: 1438556 9/1/2017 Units: mg/Kg

Result SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte PQL HighLimit Qual Diesel Range Organics (DRO) 46 10 0 91.4 73.2 114 50.00

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

%RPD Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual

Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50

10.00 Surr: DNOP 7.5 75.3 70 130

Sample ID 1708H71-001AMS TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: MS

S-088210-37-082917 Batch ID: 33675 RunNo: 45403 Client ID:

Prep Date: 9/1/2017 SeqNo: 1439035 Analysis Date: 9/5/2017 Units: mg/Kg

%REC %RPD **PQL** SPK value SPK Ref Val LowLimit HighLimit **RPDLimit** Analyte Result Qual

Diesel Range Organics (DRO) 5.457 49 10 49.95 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: Analysis Date: 9/5/2017 SeqNo: 1439036 9/1/2017 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

Value exceeds Maximum Contaminant Level. В Analyte detected in the associated Method Blank

D Sample Diluted Due to Matrix Е Value above quantitation range

J Holding times for preparation or analysis exceeded Analyte detected below quantitation limits Page 5 of 9

Not Detected at the Reporting Limit P Sample pH Not In Range

> RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Qualifiers:

Η

ND

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

4.7

WO#: **1708H71**

11-Sep-17

Client: GHD

Surr: DNOP

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

4.695

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

101

70

130

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 Quanitative 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

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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 SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: BFB 54 820 1000 82.4 150

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

SPK value SPK Ref Val %REC Analyte Result LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: BFB 910 1000 90.9 150

TestCode: EPA Method 8015D: Gasoline Range Sample ID MB-33670 SampType: MBLK

Client ID: **PBS** Batch ID: 33670 RunNo: 45409

Analysis Date: 9/5/2017 Prep Date: 9/1/2017 SeqNo: 1439100 Units: mg/Kg

%RPD SPK value SPK Ref Val %REC **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual

Gasoline Range Organics (GRO) ND 5.0 890 Surr: BFB 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

%REC Result **PQL** SPK value SPK Ref Val 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

TestCode: EPA Method 8015D: Gasoline Range Sample ID 1708H71-002AMS SampType: MS

Client ID: S-088210-37-082917 RunNo: 45409 Batch ID: 33670

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 Λ

Gasoline Range Organics (GRO) 21 87.6 77.8 4.8 24.08 128 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 0

930 939.8 99.0 150 54 0 Surr: BFB

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 7 of 9

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 SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

1.000 Surr: 4-Bromofluorobenzene 128 66.6 1.3 132

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

SPK value SPK Ref Val %REC Analyte Result 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: Batch ID: 33670 RunNo: 45409

Analysis Date: 9/5/2017 Prep Date: 9/1/2017 SeqNo: 1439126 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result HighLimit Qual ND 0.025 Benzene Toluene

ND 0.050 Ethylbenzene ND 0.050 ND Xylenes, Total 0.10

Surr: 4-Bromofluorobenzene 0.97 1.000 97.2 66.6 132

TestCode: EPA Method 8021B: Volatiles Sample ID LCS-33670 SampType: LCS

Client ID: LCSS Batch ID: 33670 RunNo: 45409

Analysis Date: 9/5/2017

Prep Date: 9/1/2017 SeqNo: 1439127 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Benzene 0.89 0.025 1.000 0 88.6 80 120 0.050 1.000 0 92.6 80 120 Toluene 0.93 0.95 0.050 1.000 0 94.8 80 Ethylbenzene 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 D	oate: 9/	5/2017	SeqNo: 1439129			Units: mg/k			
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.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

Page 8 of 9

Hall Environmental Analysis Laboratory, Inc.

0.94

WO#: **1708H71**

11-Sep-17

Client: GHD

Surr: 4-Bromofluorobenzene

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

0.9217

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 SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit 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 0.9217 0 88.5 79.4 20 0.046 140 4.39 Xylenes, Total 2.5 0.092 2.765 0 89.0 78.5 142 2.77 20

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 Quanitative 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

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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: 1708H71 RcptNo: 1 8/31/2017 9:45:00 AM Received By: Erin Melendrez 8/31/2017 1:29:48 PM Completed By: **Ashley Gallegos** Reviewed By: Chain of Custody No 🗌 Not Present 🗹 Yes 🗍 1. Custody seals intact on sample bottles? Yes 🗹 No 🗆 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In NA 🗌 Yes 🔽 No 🔲 4. Was an attempt made to cool the samples? No 🗀 NA 🗌 5. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 No 🗆 Yes 🗸 6. Sample(s) in proper container(s)? Yes 🗹 No \square 7. Sufficient sample volume for indicated test(s)? No 🗆 Yes 🗸 8. Are samples (except VOA and ONG) properly preserved? NA 🗌 9. Was preservative added to bottles? Yes \square No 🗹 Yes 🗌 No 🗌 No VOA Vials 🗹 10. VOA vials have zero headspace? Yes 🗆 No 🗹 11. Were any sample containers received broken? # of preserved bottles checked No 🗆 for pH: 12. Does paperwork match bottle labels? Yes 🔽 (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗆 13. Are matrices correctly identified on Chain of Custody? Yes 🗹 No 🗌 14, is it clear what analyses were requested? Yes 🔽 Checked by: Yes 🔽 No 🗆 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes \square No 🗌 NA 🔽 16. Was client notified of all discrepancies with this order? Person Notified: Date [Via: By Whom: 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

Custody Record Turn-Around Timestody Record Custody Record Turn-Around Timestody Record Colors of Standard Project Name: Received to Sample Request ID Type and # Standard Standard Sample Request ID Type and # Standard S	- 8/31/17 09US	Supply of 45 Date Time		7000	,005 ,005	-004	-003			Preservative HEAL No. + MT Type Type TYPE (Methors (B31-27) TYPE (Methors (B31-27) TYPE (Methors (B31-27) TYPE (Methors (B31-27) TYPE	O ou o o o o o o o o o o o o o o o o o o	10°67 10	(SMS) s'	(0	Tel. 505-345-3975	SMP SM No. 1H 4901 Hawkins NE - Albuquerque, NM 87109	Rush ANALYSIS LABORATORY	1
Request ID Request ID Request ID Request ID REGIT-SP-123-4 REGIT-SP-123-4	The state of the s	Secentral VI.		>	>				-		Sample Temperature: 7	Sampler: Stevic	Alan Brac	Project Memores	Project #: 0\$8210/37	com a		rum-Around Time:
Remark Co. S.	14 - 1A	Spec by. P. C. By		5-28820-37-182917-5F-1840-4"	5-058210-3-7-08-29-17-19-0-57-4"	508861037-0520758-1234	5-18826-37-08-31-35-4"	FUSSILO-37-08-29-1-40-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-	CASSAIN-27 LOCORDING TO LANDER A	Sample Request ID			Use (Full Validation)	2 School Con				/ Kecord
Client CHD Client CHD Phone # Seemall or Fax# OAVOC Package OAVO	(90)	15	1 7	1630 V	N 979	19/8/	1612	1 80%	1	Time Matr	□ EDD (Type)	1171	QA/QC Package:	email or Eav# 11.0	Albuqueram	Address: 612	GHD-HIP	hain-or-



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,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: 1709201

Date Reported: 9/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1709201

Project: Perdomo BMP State 1H

Lab ID: 1709201-001 **Collection Date:** 8/31/2017 3:30:00 PM

Client Sample ID: S-088210-37-083117-SP-TP-42-20' **Matrix:** SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	: MRA
Chloride	200	30	mg/Kg	20	9/13/2017 1:24:46 PM	33825
EPA METHOD 8015D MOD: GASOLIN	IE RANGE				Analys	:: 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 RAM	IGE ORGANICS	;			Analys	: 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 SI	HORT LIST				Analys	:: 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.

- * 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 Quanitative 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 Page 1 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: 1709201

Date Reported: 9/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1709201

Project: Perdomo BMP State 1H

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

•	1					
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Anal	/st: MRA
Chloride	110	30	mg/Kg	20	9/13/2017 1:37:10 P	M 33825
EPA METHOD 8015D MOD: GASOLIN	E RANGE				Analy	/st: 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 RAN	GE ORGANICS	}			Analy	/st: 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 SH	IORT LIST				Anal	/st: 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.

- * 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 Quanitative 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 Page 2 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: 1709201

Date Reported: 9/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1709201

Project: Perdomo BMP State 1H

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 Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	130	30	mg/Kg	20	9/13/2017 1:49:35 PM	A 33825
EPA METHOD 8015D MOD: GASOLII	NE RANGE				Analy	st: 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 RAI	NGE ORGANICS				Analy	st: 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 S	HORT LIST				Analy	st: 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.

- * 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 Quanitative 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 Page 3 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: 1709201

Date Reported: 9/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1709201

Project: Perdomo BMP State 1H

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

eneme sumple 12. B 000210 37 003	iii bi comp s		1,144			
Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	190	30	mg/Kg	20	9/13/2017 2:01:59 PI	M 33825
EPA METHOD 8015D MOD: GASOLII	NE RANGE				Analy	/st: 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 RAI	NGE ORGANICS				Analy	/st: 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 S	HORT LIST				Analy	/st: 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.

- * 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 Quanitative 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 Page 4 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: 1709201

Date Reported: 9/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1709201

Project: Perdomo BMP State 1H

Lab ID: 1709201-005 **Collection Date:** 8/31/2017 4:05:00 PM

Client Sample ID: S-088210-37-083117-SP-TP-7-10' **Matrix:** SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	ND	30	mg/Kg	20	9/13/2017 2:14:24 Pf	M 33825
EPA METHOD 8015D MOD: GASOLII	NE RANGE				Analy	/st: 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 RA	NGE ORGANICS	}			Analy	/st: 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 S	HORT LIST				Analy	/st: 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.

- * 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 Quanitative 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 Page 5 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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: Ics 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 Quanitative 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

Page 6 of 9

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 SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 560 10 187.8 S 50.71 728 55.8 122

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

SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result **PQL** 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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

Reporting Detection Limit

J Analyte detected below quantitation limits

D C----1- -II N---1- D----

P Sample pH Not In Range

RL

W Sample container temperature is out of limit as specified

Page 7 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1709201**

14-Sep-17

Client: GHD

Project: Perdomo BMP State 1H

Sample ID mb-33745	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: PBS	Batch	n ID: 33	745	F	RunNo: 4	5532				
Prep Date: 9/7/2017	Analysis D	Date: 9/	8/2017	5	SeqNo: 1	443300	Units: mg/k	(g		
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 Ics-33745	SampT	ype: LC	s	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List	
Client ID: LCSS	Batch	n ID: 33	745	R	RunNo: 4	5532				
Prep Date: 9/7/2017	Analysis D	ate: 9/	8/2017	S	SeqNo: 1	443301	Units: mg/K	(g		
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		<u>, </u>	
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.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative 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

Page 8 of 9

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 Ics-33745 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 33745 RunNo: 45532

Analysis Date: 9/8/2017 Prep Date: 9/7/2017 SeqNo: 1443326 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) 5.0 25.00 97.5 70 130 Surr: BFB 450 70 500.0 90.0 130

TestCode: EPA Method 8015D Mod: Gasoline Range Sample ID 1709201-002ams SampType: MS

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

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual

Gasoline Range Organics (GRO) 31 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

%REC Result **PQL** SPK value SPK Ref Val 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

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Page 9 of 9

P Sample pH Not In Range

RLReporting Detection Limit

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

Client Name:	GHD	Work Order Numbe	r: 1 709201		RcptNo:	1
Received By:	Andy Freeman	9/2/2017 12:35:00 PM	A	Andyl		
Completed By:	Ashley Gallegos	9/6/2017 1:56:08 PM		adyl-		
Reviewed By:	ENM	916/17		0 , ,		
	,					
Chain of Cus	stody					
1. Custody sea	als intact on sample bottle	es?	Yes 🗌	No 🗌	Not Present 🗹	
2. Is Chain of	Custody complete?		Yes 🗹	No 🗌	Not Present	
3. How was th	e sample delivered?		Courier			
<u>Log In</u>						
4. Was an atte	empt made to cool the sa	mples?	Yes 🗸	No 🗆	NA \square	
5. Were all sa	mples received at a temp	erature of >0° C to 6.0°C	Yes 🗹	No 🗌	na 🗆	
6. Sample(s) i	n proper container(s)?		Yes 🔽	No 🗆		
7. Sufficient sa	ample volume for indicate	d test(s)?	Yes 🗹	No 🗌		
8. Are samples	s (except VOA and ONG)	properly preserved?	Yes 🗸	No 🗌		
9. Was preser	vative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
10.VOA vials h	ave zero headspace?		Yes 🗌	No 🗆	No VOA Vials 🗹	
11. Were any s	ample containers receive	d broken?	Yes	No 🗹	# of preserved	
40.5				🗂	bottles checked	
	work match bottle labels? pancies on chain of custo		Yes 🗹	No ∐	for pH:	>12 unless noted)
	correctly identified on C	• •	Yes 🗸	No 🗌	Adjusted?	
14, Is it clear wh	nat analyses were reques	ted?	Yes 🗹	No 🗆		
	ding times able to be met customer for authorization		Yes 🗹	No 🗆	Checked by:	
(II IIO, IIOUI)	customer for authorizatio	, in . , , , , , , , , , , , , , , , , , ,				
Special Hand	lling (if applicable)					
16. Was client n	otified of all discrepancie	s with this order?	Yes 🗌	No 🗌	NA 🗹	
Person	n Notified:	Date				
By Wh	iom:	Via:	eMail	Phone 🗌 Fax	In Person	
Regard	Andrew Control				·	
Client	Instructions:					
17. Additional re	emarks:			****		
18. <u>Cooler Info</u>						
Cooler No			Seal Date	Signed By		
1	3.7 Good	Yes				

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Contract	email or Fax# QA/QC Package	Alan.B		Project Mana	ger: Tandon					(SM	COS Co					
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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,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: 1709315

Date Reported: 9/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1709315

Project: Perdoma BMP State 1H

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 Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analy	st: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/12/2017 3:01:00 Pf	M 33802
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/12/2017 3:01:00 Pf	M 33802
Surr: DNOP	97.4	70-130	%Rec	1	9/12/2017 3:01:00 PI	И 33802
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/12/2017 1:49:54 PI	M 33798
Surr: BFB	95.2	54-150	%Rec	1	9/12/2017 1:49:54 PI	И 33798
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.024	mg/Kg	1	9/12/2017 1:49:54 PI	M 33798
Toluene	ND	0.047	mg/Kg	1	9/12/2017 1:49:54 PI	M 33798
Ethylbenzene	ND	0.047	mg/Kg	1	9/12/2017 1:49:54 PI	M 33798
Xylenes, Total	ND	0.094	mg/Kg	1	9/12/2017 1:49:54 Pf	M 33798
Surr: 4-Bromofluorobenzene	103	66.6-132	%Rec	1	9/12/2017 1:49:54 PI	И 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 Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Anal	yst: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/12/2017 4:16:28 P	M 33802
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/12/2017 4:16:28 P	M 33802
Surr: DNOP	110	70-130	%Rec	1	9/12/2017 4:16:28 P	M 33802
EPA METHOD 8015D: GASOLINE RANG	SE .				Anal	yst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/12/2017 3:00:16 P	M 33798
Surr: BFB	99.8	54-150	%Rec	1	9/12/2017 3:00:16 P	M 33798
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB
Benzene	ND	0.023	mg/Kg	1	9/12/2017 3:00:16 P	M 33798
Toluene	ND	0.046	mg/Kg	1	9/12/2017 3:00:16 P	M 33798
Ethylbenzene	ND	0.046	mg/Kg	1	9/12/2017 3:00:16 P	M 33798
Xylenes, Total	ND	0.092	mg/Kg	1	9/12/2017 3:00:16 P	M 33798
Surr: 4-Bromofluorobenzene	109	66.6-132	%Rec	1	9/12/2017 3:00:16 P	M 33798

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

- * 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 Quanitative 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 Page 1 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: **1709315**Date Reported: **9/14/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1709315

Project: Perdoma BMP State 1H

Lab ID: 1709315-003 **Collection Date:** 9/5/2017 4:35:00 PM

Client Sample ID: S-088210-37-090517-SP-TP-9-10' Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS	S			Ana	lyst: 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 RA	NGE				Ana	lyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/12/2017 4:10:55 F	PM 33798
Surr: BFB	103	54-150	%Rec	1	9/12/2017 4:10:55 F	PM 33798
EPA METHOD 8021B: VOLATILES					Ana	lyst: NSB
Benzene	ND	0.024	mg/Kg	1	9/12/2017 4:10:55 F	PM 33798
Toluene	ND	0.047	mg/Kg	1	9/12/2017 4:10:55 F	PM 33798
Ethylbenzene	ND	0.047	mg/Kg	1	9/12/2017 4:10:55 F	PM 33798
Xylenes, Total	ND	0.094	mg/Kg	1	9/12/2017 4:10:55 F	PM 33798
Surr: 4-Bromofluorobenzene	111	66.6-132	%Rec	1	9/12/2017 4:10:55 F	PM 33798

Lab ID: 1709315-004 **Collection Date:** 9/5/2017 4:40:00 PM

Client Sample ID: S-088210-37-090517-SP-TP-43-10' Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Ana	alyst: 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 RAN	GE				Ana	alyst: 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					Ana	alyst: 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.

- * 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 Quanitative 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 Page 2 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: **1709315**

Date Reported: 9/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1709315

Project: Perdoma BMP State 1H

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 Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Anal	yst: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/12/2017 5:32:02 P	M 33802
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/12/2017 5:32:02 P	M 33802
Surr: DNOP	91.8	70-130	%Rec	1	9/12/2017 5:32:02 P	M 33802
EPA METHOD 8015D: GASOLINE RAM	IGE				Anal	yst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/12/2017 4:57:59 P	M 33798
Surr: BFB	101	54-150	%Rec	1	9/12/2017 4:57:59 P	M 33798
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB
Benzene	ND	0.024	mg/Kg	1	9/12/2017 4:57:59 P	M 33798
Toluene	ND	0.047	mg/Kg	1	9/12/2017 4:57:59 P	M 33798
Ethylbenzene	ND	0.047	mg/Kg	1	9/12/2017 4:57:59 P	M 33798
Xylenes, Total	ND	0.095	mg/Kg	1	9/12/2017 4:57:59 P	M 33798
Surr: 4-Bromofluorobenzene	105	66.6-132	%Rec	1	9/12/2017 4:57:59 P	M 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 Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analy	st: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/12/2017 5:57:14 PN	1 33802
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/12/2017 5:57:14 PN	1 33802
Surr: DNOP	92.1	70-130	%Rec	1	9/12/2017 5:57:14 PN	1 33802
EPA METHOD 8015D: GASOLINE RANG	GE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/12/2017 5:21:27 PN	1 33798
Surr: BFB	100	54-150	%Rec	1	9/12/2017 5:21:27 PN	1 33798
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.024	mg/Kg	1	9/12/2017 5:21:27 PN	1 33798
Toluene	ND	0.048	mg/Kg	1	9/12/2017 5:21:27 PN	1 33798
Ethylbenzene	ND	0.048	mg/Kg	1	9/12/2017 5:21:27 PN	1 33798
Xylenes, Total	ND	0.096	mg/Kg	1	9/12/2017 5:21:27 PN	1 33798
Surr: 4-Bromofluorobenzene	107	66.6-132	%Rec	1	9/12/2017 5:21:27 PN	1 33798

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

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 Quanitative 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 Page 3 of 11

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Lab Order: 1709315

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/14/2017

CLIENT: GHD Lab Order: 1709315

Project: Perdoma BMP State 1H

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 Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	6			Ana	alyst: 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 RA	NGE				Ana	alyst: 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					Ana	alyst: 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 Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Anal	yst: TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	9/12/2017 6:47:52 P	M 33802
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/12/2017 6:47:52 P	M 33802
Surr: DNOP	96.2	70-130	%Rec	1	9/12/2017 6:47:52 P	M 33802
EPA METHOD 8015D: GASOLINE RANG	SE .				Anal	yst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/12/2017 9:15:38 P	M 33798
Surr: BFB	94.6	54-150	%Rec	1	9/12/2017 9:15:38 P	M 33798
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB
Benzene	ND	0.023	mg/Kg	1	9/12/2017 9:15:38 P	M 33798
Toluene	ND	0.046	mg/Kg	1	9/12/2017 9:15:38 P	M 33798
Ethylbenzene	ND	0.046	mg/Kg	1	9/12/2017 9:15:38 P	M 33798
Xylenes, Total	ND	0.092	mg/Kg	1	9/12/2017 9:15:38 P	M 33798
Surr: 4-Bromofluorobenzene	103	66.6-132	%Rec	1	9/12/2017 9:15:38 P	M 33798

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

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 Quanitative 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 Page 4 of 11

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Lab Order: 1709315

Date Reported: 9/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1709315

Project: Perdoma BMP State 1H

Lab ID: 1709315-009 **Collection Date:** 9/5/2017 5:05:00 PM

Client Sample ID: S-088210-37-090517-SP-TP-47-4' Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Ana	lyst: 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 RA	NGE				Ana	lyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/12/2017 9:38:59 F	PM 33798
Surr: BFB	98.5	54-150	%Rec	1	9/12/2017 9:38:59	PM 33798
EPA METHOD 8021B: VOLATILES					Ana	lyst: NSB
Benzene	ND	0.024	mg/Kg	1	9/12/2017 9:38:59 F	PM 33798
Toluene	ND	0.047	mg/Kg	1	9/12/2017 9:38:59 F	PM 33798
Ethylbenzene	ND	0.047	mg/Kg	1	9/12/2017 9:38:59 F	PM 33798
Xylenes, Total	ND	0.094	mg/Kg	1	9/12/2017 9:38:59 F	PM 33798
Surr: 4-Bromofluorobenzene	106	66.6-132	%Rec	1	9/12/2017 9:38:59 F	PM 33798

Lab ID: 1709315-010 **Collection Date:** 9/5/2017 5:10:00 PM

Client Sample ID: S-088210-37-090517-SP-TP-46-4' Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANG		Ana	alyst: 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 RANG	SE .				Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/12/2017 10:02:28	33798 BPM
Surr: BFB	96.9	54-150	%Rec	1	9/12/2017 10:02:28	33798 PM
EPA METHOD 8021B: VOLATILES					Ana	alyst: NSB
Benzene	ND	0.024	mg/Kg	1	9/12/2017 10:02:28	33798 BPM
Toluene	ND	0.049	mg/Kg	1	9/12/2017 10:02:28	33798 BPM
Ethylbenzene	ND	0.049	mg/Kg	1	9/12/2017 10:02:28	33798 BPM
Xylenes, Total	ND	0.097	mg/Kg	1	9/12/2017 10:02:28	33798 B PM
Surr: 4-Bromofluorobenzene	105	66.6-132	%Rec	1	9/12/2017 10:02:28	33798 B PM

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

Qualifiers: * Value

- * 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 Quanitative 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 Page 5 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: **1709315**

Date Reported: 9/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1709315

Project: Perdoma BMP State 1H

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 RANG		An	alyst: 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 RAN	IGE				An	alyst: NSB
Gasoline Range Organics (GRO)	8.6	4.6	mg/Kg	1	9/12/2017 10:25:4	8 PM 33798
Surr: BFB	183	54-150	S %Rec	1	9/12/2017 10:25:4	8 PM 33798
EPA METHOD 8021B: VOLATILES					An	alyst: NSB
Benzene	ND	0.023	mg/Kg	1	9/12/2017 10:25:4	8 PM 33798
Toluene	ND	0.046	mg/Kg	1	9/12/2017 10:25:4	8 PM 33798
Ethylbenzene	ND	0.046	mg/Kg	1	9/12/2017 10:25:4	8 PM 33798
Xylenes, Total	ND	0.093	mg/Kg	1	9/12/2017 10:25:4	8 PM 33798
Surr: 4-Bromofluorobenzene	110	66.6-132	%Rec	1	9/12/2017 10:25:4	8 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 Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Anal	yst: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/12/2017 8:28:35 P	PM 33802
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/12/2017 8:28:35 P	PM 33802
Surr: DNOP	98.9	70-130	%Rec	1	9/12/2017 8:28:35 P	PM 33802
EPA METHOD 8015D: GASOLINE RANG	3E				Anal	yst: 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					Anal	yst: 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.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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 Page 6 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: **1709315**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/14/2017

CLIENT: GHD Lab Order: 1709315

Project: Perdoma BMP State 1H

Lab ID: 1709315-013 **Collection Date:** 9/6/2017 5:24:00 PM

Client Sample ID: S-088210-37-090617-SP-TP-50-4' Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RAN		An	alyst: 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 RA	NGE				An	alyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/12/2017 11:12:2	7 PM 33798
Surr: BFB	98.2	54-150	%Rec	1	9/12/2017 11:12:2	7 PM 33798
EPA METHOD 8021B: VOLATILES					An	alyst: NSB
Benzene	ND	0.025	mg/Kg	1	9/12/2017 11:12:2	7 PM 33798
Toluene	ND	0.050	mg/Kg	1	9/12/2017 11:12:2	7 PM 33798
Ethylbenzene	ND	0.050	mg/Kg	1	9/12/2017 11:12:2	7 PM 33798
Xylenes, Total	ND	0.099	mg/Kg	1	9/12/2017 11:12:2	7 PM 33798
Surr: 4-Bromofluorobenzene	107	66.6-132	%Rec	1	9/12/2017 11:12:2	7 PM 33798

Lab ID: 1709315-014 **Collection Date:** 9/6/2017 5:28:00 PM

Client Sample ID: S-088210-37-090617-SP-TP-21-4' Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Ana	alyst: 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 RANG	GE				Ana	alyst: 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					Ana	alyst: 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.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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 Page 7 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1709315**

14-Sep-17

Client: GHD

Project: Perdoma 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 SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 89.7 45 50.00 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

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 45 9.1 45.70 3.334 90.3 122

 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

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit 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.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative 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

D. Camala all Nat la Danas

Page 8 of 11

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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 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) 5.0 25.00 103 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

%RPD **RPDLimit PQL** Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit Qual Gasoline Range Organics (GRO) 32 23.50 138 77.8 128 Surr: BFB 1000 939.8 150 112 54

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

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 23.41 31 4.7 134 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

RL

Surr: BFB 1100 1000 107 54 150

Qualifiers:

* Value exceeds Maximum Contaminant Level. B Analyst

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

Reporting Detection Limit

J Analyte detected below quantitation limits

D. Committee and Not to Donner

P Sample pH Not In Range

W Sample container temperature is out of limit as specified

Page 9 of 11

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 Analysis Date: 9/12/2017 Prep Date: 9/11/2017 SeqNo: 1445378 Units: mg/Kg Analyte **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Result LowLimit 80 1.0 0.025 1.000 0 100 120 Benzene Toluene 0.98 0.050 1.000 0 97.8 80 120 Ethylbenzene 0.050 0 101 80 1.0 1.000 120

0

102

108

80

66.6

120

132

Sample ID 1709315-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles

3.000

1.000

Client ID: S-088210-37-090517 Batch ID: 33798 RunNo: 45568

0.10

3.1

1.1

Prep Date: 9/11/2017	Analysis D	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 D	Date: 9/	12/2017	SeqNo: 1445381			Units: mg/K	(g		
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:

Xylenes, Total

Surr: 4-Bromofluorobenzene

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range

J Analyte detected below quantitation limits

Page 10 of 11

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

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 SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: 4-Bromofluorobenzene 1.000 107 66.6 1.1 132

Sample ID LCS-33771 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Batch ID: 33771 Client ID: LCSS RunNo: 45568

Prep Date: 9/8/2017 Analysis Date: 9/12/2017 SeqNo: 1445396 Units: %Rec

Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Qual

Surr: 4-Bromofluorobenzene 1.0 1.000 104 66.6 132

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 11 of 11

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3075 FAX: 505-345-4107

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: GHD	Work Order Nu	ımber: 1709315		RcptNo:	1
Received By: Isaiah Ortiz	9/7/2017 9:55:00	AM	ICA	•	
Completed By: Ashley Gallegos	s 9/7/2017 11:08:4	4 AM	A		
Reviewed By: SRE 09	4		0		
Chain of Custody					
1. Custody seals intact on sample	bottles?	Yes 🗌	No \square	Not Present 🗹	
2. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
3. How was the sample delivered?	?	<u>Courier</u>			
<u>Log In</u>					
4. Was an attempt made to cool t	the samples?	Yes 🗹	No 🗌	NA 🗆	
5. Were all samples received at a	temperature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA \square	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗌		
7. Sufficient sample volume for inc	dicated test(s)?	Yes 🗸	No 🗆		
8. Are samples (except VOA and	ONG) properly preserved?	Yes 🗹	No 🗌		
9. Was preservative added to bott	tles?	Yes 🗌	No 🗹	NA 🗆	
10.VOA vials have zero headspace	e?	Yes 🗌	No 🗌	No VOA Vials 🗹	
11. Were any sample containers re	eceived broken?	Yes	No 🗸	# of preserved	
40.5			🗆	bottles checked	
12.Does paperwork match bottle la (Note discrepancies on chain o		Yes 🗸	No 📙	for pH: (<2.0	or >12 unless noted)
13. Are matrices correctly identified		Yes 🗹	No 🗌	Adjusted?	
14. Is it clear what analyses were re	equested?	Yes 🗹	No 🗌	!	
15. Were all holding times able to be (If no, notify customer for authority)		Yes 🗹	No 🗌	Checked by:	
Special Handling (if applica	shle)				
16. Was client notified of all discrep		Yes 🗌	No 🗆	NA 🗹	
Person Notified:	C	ate			
By Whom:		*	Phone Fax	☐ In Person	
Regarding:					
Client Instructions:					· •
17. Additional remarks:					
18. Cooler Information			6 1 1 5	1	
Cooler No Temp °C Co	ondition Seal Intact Seal Nod Yes	lo Seal Date	Signed By		
L				l	

Standard Rush Record Rush Record Rush	ر	nam	ام 1-10-	Chain-of-Custody Record	auii-Aionia IIIIe								í		-		-	:
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Project Manager:					Project #:				Tel	505	345-	976	T	× 50	5-348	5-410		
Net Part P	Phone	# 51	5-884	- 0672	3				ß		B	٩	nalys	is Re	enba	ti.	K	
Name	emailo	r Fax#	Slar.	44	Project Mana	iger:		()		(0)				-				
Container Cont	OA/OC	Package: dard	Š.	J Level 4 (Full Validation)	Alan 1	Tendon		208) s		IM / OX		(SWIS			9004			
Container Cont	Accred	tation	I I		Sampler:	9	2679	amt					700		zôno	j		
Container Time Matrix Sample Request D Type and # Type TO93/5 EDB (Mothod & EDB	T NE	AF	5		On Ice:	3vYes	O No	, t		_	_	_	-	_	19	(A		
The Time Matrix Sample Request D Type and # Type Ty	0 600	(Type)			Sample Tem	perature: (.		38.		_	_	_	-	-	-	_		
	Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	rM + €€17										
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submitted to Hall Environmental may be subcontracted to other accrecited indicationes. This serves as notice of this possibility. Any sub-contracted data will be presery 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 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,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 1709926

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/29/2017

1709926

Lab Order:

CLIENT: GHD
Project: Perdomo

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 Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Anal	yst: MRA
Chloride	150	30	mg/Kg	20	9/26/2017 11:54:11	AM 34063
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	3			Anal	yst: TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	9/28/2017 9:48:31 A	M 34111
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/28/2017 9:48:31 A	M 34111
Surr: DNOP	97.2	70-130	%Rec	1	9/28/2017 9:48:31 A	M 34111
EPA METHOD 8015D: GASOLINE RANGE	E				Anal	yst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/28/2017 9:50:04 A	M 34110
Surr: BFB	107	54-150	%Rec	1	9/28/2017 9:50:04 A	M 34110
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.091	mg/Kg	1	9/28/2017 9:50:04 A	M 34110
Benzene	ND	0.023	mg/Kg	1	9/28/2017 9:50:04 A	M 34110
Toluene	ND	0.046	mg/Kg	1	9/28/2017 9:50:04 A	M 34110
Ethylbenzene	ND	0.046	mg/Kg	1	9/28/2017 9:50:04 A	M 34110
Xylenes, Total	ND	0.091	mg/Kg	1	9/28/2017 9:50:04 A	M 34110
Surr: 4-Bromofluorobenzene	115	66.6-132	%Rec	1	9/28/2017 9:50:04 A	M 34110

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

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 Quanitative 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 Page 1 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- 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 Lab Order: 1709926

Project: Perdomo

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 Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					An	alyst: MRA
Chloride	150	30	mg/Kg	20	9/26/2017 12:31:2	4 PM 34063
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	3			An	alyst: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/28/2017 10:10:3	6 AM 34111
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/28/2017 10:10:3	6 AM 34111
Surr: DNOP	94.7	70-130	%Rec	1	9/28/2017 10:10:3	6 AM 34111
EPA METHOD 8015D: GASOLINE RANG	GE				An	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/28/2017 10:37:1	9 AM 34110
Surr: BFB	114	54-150	%Rec	1	9/28/2017 10:37:1	9 AM 34110
EPA METHOD 8021B: VOLATILES					An	alyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.096	mg/Kg	1	9/28/2017 10:37:1	9 AM 34110
Benzene	ND	0.024	mg/Kg	1	9/28/2017 10:37:1	9 AM 34110
Toluene	ND	0.048	mg/Kg	1	9/28/2017 10:37:1	9 AM 34110
Ethylbenzene	ND	0.048	mg/Kg	1	9/28/2017 10:37:1	9 AM 34110
Xylenes, Total	ND	0.096	mg/Kg	1	9/28/2017 10:37:1	9 AM 34110
Surr: 4-Bromofluorobenzene	121	66.6-132	%Rec	1	9/28/2017 10:37:1	9 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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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 Page 2 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- 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 Lab Order: 1709926

Project: Perdomo

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 Qu	al Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					An	alyst: MRA
Chloride	130	30	mg/Kg	20	9/26/2017 1:08:38	PM 34063
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANIC	S			Ana	alyst: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/28/2017 10:32:3	6 AM 34111
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/28/2017 10:32:3	6 AM 34111
Surr: DNOP	99.2	70-130	%Rec	1	9/28/2017 10:32:3	6 AM 34111
EPA METHOD 8015D: GASOLINE RANG	iΕ				Ana	alyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/28/2017 11:00:5	8 AM 34110
Surr: BFB	112	54-150	%Rec	1	9/28/2017 11:00:5	8 AM 34110
EPA METHOD 8021B: VOLATILES					Ana	alyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.095	mg/Kg	1	9/28/2017 11:00:5	8 AM 34110
Benzene	ND	0.024	mg/Kg	1	9/28/2017 11:00:5	8 AM 34110
Toluene	ND	0.048	mg/Kg	1	9/28/2017 11:00:5	8 AM 34110
Ethylbenzene	ND	0.048	mg/Kg	1	9/28/2017 11:00:5	8 AM 34110
Xylenes, Total	ND	0.095	mg/Kg	1	9/28/2017 11:00:5	8 AM 34110
Surr: 4-Bromofluorobenzene	122	66.6-132	%Rec	1	9/28/2017 11:00:5	8 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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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 Page 3 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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: Ics 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

Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Qual

Chloride 14 1.5 15.00 0 95.2 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 4 of 8

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

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 SeqNo: 1460547 Prep Date: 9/27/2017 Analysis Date: 9/28/2017 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 43 50.00 0 86.4 73.2 114 Surr: DNOP 5.000 91.7 4.6 70 130

Sample ID MB-34111 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Batch ID: 34111 Client ID: PBS 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.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Ε 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

Page 5 of 8

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

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual Gasoline Range Organics (GRO) 30 23.52 128 77.8 128 SH Surr: BFB 970 940.7 103 54 150 Н

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

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 31 4.7 23.52 132 77.8 128 3.19 20 SH Λ Surr: BFB 960 940.7 102 54 150 0 0 Н

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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

Reporting Detection Limit

J Analyte detected below quantitation limits

D C 1 HN I D

P Sample pH Not In Range

RL

W Sample container temperature is out of limit as specified

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

1.0

WO#: **1709926**

29-Sep-17

Client: GHD
Project: Perdomo

Surr: 4-Bromofluorobenzene

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) 0.10 ND Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

100

66.6

132

1.000

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 **PQL** SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Methyl tert-butyl ether (MTBE) 0.96 0.10 1.000 96.5 66.5 120 0.025 1.000 0 106 80 120 Benzene 1.1 0 Toluene 1.1 0.050 1.000 106 80 120 0 109 80 Ethylbenzene 1.1 0.050 1.000 120 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 RunNo: 45958 Client ID: S-088210-37-091417 Batch ID: 34110 Prep Date: 9/27/2017 Analysis Date: 9/28/2017 SeqNo: 1461574 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** LowLimit Qual Methyl tert-butyl ether (MTBE) 0.97 0.098 0.9814 98.7 72.5 138 0 Н 0.9814 0 80.9 Benzene 1.1 0.025 111 132 Н Toluene 0.9814 0 79.8 1.1 0.049 111 136 Н Ethylbenzene 1.1 0.049 0.9814 0 116 79.4 140 Н 3.5 0.098 0 78.5 Xylenes, Total 2.944 117 142 Η Surr: 4-Bromofluorobenzene 1.0 0.9814 104 66.6 132 Н

Sample ID 1709926-001AMS	D SampTy	/pe: MS	SD .	Test	tCode: El	PA Method	8021B: Volat	iles		
Client ID: S-088210-37-0914	117 Batch	ID: 34	110	R	RunNo: 4	5958				
Prep Date: 9/27/2017	Analysis Da	ate: 9/ 2	28/2017	S	SeqNo: 14	461575	Units: mg/K	(g		
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	Н
Benzene	1.1	0.025	1.000	0	107	80.9	132	1.61	20	Н
Toluene	1.1	0.050	1.000	0	107	79.8	136	1.81	20	Н
Ethylbenzene	1.1	0.050	1.000	0	112	79.4	140	1.66	20	Н

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 Quanitative 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

Page 7 of 8

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	Н
Surr: 4-Bromofluorobenzene	1.1		1.000		106	66.6	132	0	0	Н

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 Quanitative 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

Page 8 of 8



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 Nu	ımber: 1709926		RcptNo: 1	•
Received By: John Caldwell	9/16/2017 8:40:0	00 AM	John Chlure	(
Completed By: Sophia Camp	uzano 9/18/2017 12:50:	:08 PM	John College		
Reviewed By:	- 2/18/17		. 7		
Chain of Custody					
1. Custody seals intact on samp	le bottles?	Yes	No 🗌	Not Present 🗹	
2. Is Chain of Custody complete	?	Yes 🗹	No 🗌	Not Present	
3. How was the sample delivered	d?	<u>Courier</u>			
<u>Log In</u>					
4. Was an attempt made to coo	I the samples?	Yes 🗸	No 🗌	NA \square	
5. Were all samples received at	a temperature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
6. Sample(s) in proper container	r(s)?	Yes 🗹	No 🗌		
7. Sufficient sample volume for i	ndicated test(s)?	Yes 🔽	No 🗌		
8. Are samples (except VOA and	d ONG) properly preserved?	Yes 🗹	No 🗌		
9. Was preservative added to be	ottles?	Yes	No 🗹	NA \square	
10.VOA vials have zero headspa	ce?	Yes 🗌	No 🗌	No VOA Vials 🗹	
11. Were any sample containers	received broken?	Yes 🗀	No 🗹 🗍	# of preserved	
12. Does paperwork match bottle	labels?	Yes 🗸	No 🗆	bottles checked for pH:	
(Note discrepancies on chain		100 🖭		(<2 or >12 unless noted)
13. Are matrices correctly identified	ed on Chain of Custody?	Yes 🗸	No \square	Adjusted?	
14. Is it clear what analyses were	requested?	Yes 🗹	No 🗌		
Were all holding times able to (If no, notify customer for auth		Yes 🗹	No 🗌	Checked by:	
0	-64-1				
Special Handling (if applic					
16. Was client notified of all discre	MANUFACTURE CONTRACTOR	Yes 🗆	No ∐ 	NA 🗹	
Person Notified:		ate			
By Whom:	V ************************************	ia: eMail Pl	none Fax	In Person	
Regarding: Client Instructions:					
17. Additional remarks:					
18. Cooler Information Cooler No Temp °C C	Condition Seal Intact Seal N	o Seal Date	Signed By		
	ood Yes		<u> </u>		

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109			(M.	o Y)	Air Bubbles						
ENVIRONME YSIS LABORA environmental.bom Albuquerque, NM 87109	20	(0))3Y	Chlock	X	X	X			
NEW WIN	505-345-4107 Request		()		4DV) 808S8 ime8) 0YS8						
IALL ENVIRON INALYSIS LAB www.hallenvironmental.com	505-345- Request	5 bc8.8	7 ROB /	_	8081 Pestic		-			+-	
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YS YS Jenvillenvil	Analysis			_	RCRA 8 Me		17				
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HAL ANA www.h	505-345-3975				EDB (Metho						
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		Backlach	Gant	190	HEAL NO	- OC	-003	-003		Date	Spice Time
ound Time: Idard □ Rush Name: COMO	58210-37	10	Schael	7	Preservative Type	TCE				0	7 May 1
Turn-An M Star Project	0582	Project Manager. Beanard	Sampler, M.	Sample Temperature:	Container Type and #	400 Soil Su				Received W.	Received
stody Record Lees Inc. Endian School Risk?	3	Level 4 (Full Validation)			Sample Request ID	SOSSAID-3 TOAMITY MEAN 195	508310-37-001-117-116-4-4-58	5288210-37.091417411 5-2144-1-35			Cont
Secvices	Phone # 505 884	email or Fax#: Secreace OA/aC Package: Z Standard	□ Other		Matrix	V	v	S		Relinguished by:	
Client CHD Sec	# Soc	email or Fax#: B QA/ØC Package: Standard	AP	□ EDD (Type)	Time	1210	1215	1220		Time	190)
Client	Phone	OA/AC Stan	Accreditation NELAP	D EDG	Date	4/14/12	3/14/17	9/14/7		Date	0 5

Appendix C Waste Manifests District 1
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 *Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

Form C-138 Revised August 1, 2011

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:	O ACCEPT SOLID WASTE
EOG Resources Inc. 5509 Champions Dr. Midland TX, 79706	[하다 되는 사람들은 그리 살이 되는 옷에서 보고 없으면 모양했다.
2. Originating Site:	
Perdomo BMP State Com #1H API#30-015-36499	경영병 기업
3. Location of Material (Street Address, City, State or ULSTR):	
32.20029, -104.15024	1 할 때에 그 마른 기교들은 다음 모든드라고 모든 것이다.
4. Source and Description of Waste:	
Soil impacted with produced water and/or crude oil	보통하다 레이노 마이(1), (5) 프레디팅 (8) [8]
Estimated Volume 1000+ yd3/bbls Known Volume (to be ent	tered by the operator at the end of the haul) yd³/bbls
	- FOG Resources Inc
certify that according to the Resource Conservation and Recovery Act	(RCRA) and the US Environmental Protection Assemble Late 1000
regulatory determination, the above described waste is: (Check the app	ropriate classification)
RCRA Exempt: Oil field wastes generated from oil and gas expl	oration and production operations and are not mixed with non-
	raige Manning Marky La 1944
RCRA Non-Exempt: Oil field waste which is non-hazardous that	t does not exceed the minimum standards for waste hazardous by
Communication committee in ICNA regulations 40 (FR 781) 127	61.24, or listed hazardous waste as defined in 40 CFR, part 261, to demonstrate the above-described waste is non-hazardous. (Check
the appropriate items)	to demonstrate the above-described waste is non-hazardous. (Check
MSDS Information RCRA Hazardous Waste Analysis Process	Knowledge Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTI	
I, representative for	할아마다 가장 마음을 하는 것이 없는 것 같아. 그렇는 것은 것 같아 얼마를 가지 않는데 얼마를 다 했다.
representative samples of the oil field waste have been exhibited to the	paint filter test and tested for chloride content and the stand
have been found to conform to the specific requirements applicable to of the representative samples are attached to demonstrate the above de-	and farms pursuant to Section 15 of 19.15.36 NMAC. The results
of the representative samples are attached to demonstrate the above-det 19.15.36 NMAC.	scribed waste conform to the requirements of Section 15 of
5. Transporter:	
SDR ENTERPRISES INC. (575) 441-7330	
CD Permitted Surface Waste Management Facility	
Name and Facility Permit #: Lea Land LLC FP# WM-1035	
AND LABOR LICE FIT WM-1035	and the second of the second o
Address of Facility:	
file marker 64 US 62/180 E, CARLSBAD 88220	
Method of Treatment and/or Disposal;	
Evaporation Injection Treating Plant Landfarm	
Evaporation Injection Treating Plant Landfarm /aste Acceptance Status:	(Landfill) Other
APPROVED	NEATURE 1.
	DENIED (Must Be Maintained As Permanent Record)
RINT NAME. Savalyn Hall TITLE: GNATURE: Savalyn Hall TEL	Paky Many, DATE: 9/19/19
GNATURE: Sonalum XVIII TEI	The second production of the property of the second profession of the second profession and the second profession of the
The second secon	EPHONE NO.: CONTRACTOR OF THE PARTY OF THE P

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

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	1/1)	

NON	-HAZARDOUS WASTE MANIF	EST	NO	119650	1. PA	GE_OF_	2. TRAII	LER NO.	Dole	
G	3. COMPANY NAME E O G Resources	4. ADD	RESS Champi				ICK-UP DATE			
E	PHONE NO. (432) 696-3705	CITY Midls	nd ·	STATE	797		NRCC I.D. NO).	- Ying	
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8. CON' No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
N	al Von-Regulated, Non Hazardous Wast	g.			1-	CIA		Y.		
	b.									
E	c.									
R	WT 44/40 47,5	LED)							
	12. COMMENTS OR SPECIAL INSTRUCTIONS:				- ^_		13. WASTE P	ROFILE N	O.	
н А				<u> </u>						
Т	NAME	PHON	IE NO	ENCY OR SPIL	L, COI	NTACT	24-HOUR	EMERGE	NCY NO.	
	JOE ONTIVEROS		187-40411			0.11				
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled	and are in a	Il respects in proper co	ndition fo	r transport	by highway acc	cording to a	pplicable	
R	PRINTED/TYPED NAME			SIGNATURE					DATE	
T R	16. TRANSPORTER (1)			17.	TF	RANSPO	RTER (2)			
A N	NAME: SDR ENTERPRISE	LLC		NAME:						
S	TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT:	t It i jet i	RUSK	TEXAS I.D. NO. IN CASE OF EME	RGENCY	V CONTAC	^ب ۲۰			
0	IN CASE OF EMERGENCY CONTACT.	1 3 4 1 - 7		EMERGENCY PHONE:						
R T	18. TRANSPORTER (1): Acknowledgment of	The same	0	19. TRANSPORTER (2): Acknowledgment of receipt of material						
E R	PRINTED/TYPED NAME	كلان	2700	PRINTED/TYPED	NAME		-		- W	
S	SIGNATURE	DATE	9/16/	²⁰ signature			I	DATE		
	Lea Land, LLC	ADD	RESS:	e Marker 64, U.	СНи	v 62/18	PHONE:	575_88	7-4048	
D F I A	Lea Land, LLC			Miles East of Ca			0,	373-00	7-4040	
S C P I	PERMIT NO. WM-01-035 - New Mex	cico		20. COMMENTS					4.	
O L S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such v		N: I Hereby	certify that the above d	lescribed	wastes wer	e delivered to t	his facility,	that the	
LY	AUTHORIZED SIGNATURE	al	12	CELL NO.	-	DATI	9/15/2017	TI	ME 4	

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

NON	N-HAZARDOUS WASTE MANIFEST NO			119650	1. PA	GEOI	_	2. TRAILER NO.			
	3. COMPANY NAME	4. ADD	RESS		5. PICK-UP DATE						
\mathbf{G}_{+}	PHONE NO.	CITY		STATE		ZIP 6.	TNDC	CID NO			
	PHONE NO.	CITY		STATE	ZIP 6. TNRCC I,D. NO.					100	
E	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D)	_		8, CON	TAINERS	9.	TOTAL	10, UNIT	11 TEXAS	
		9	_		No	Туре	QU.	ANTITY	Wt/Vol.	WASTE ID #	
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	b.										
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	d. Allah Arts	1.7	,				\vdash				
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:	ul					13	WASTE PE	OFILE N	0	
	FLRDOMO FINES STATE COM 4 14						13.	WASILII	COLIED IV	0.	
A	1	e n er				VIII - COT	_				
	14. IN CA		EMERG NE NO	ENCY OR SPIL	L, CON	NTACT		24-HOUR	EMERGEI	NCY NO.	
T	NAME PHONE NO 24-HOUR EMERGENCY NO.										
2	15.GENERATOR'S CERTIFICATION:	I Hereby	declare that	the contents of this co	nsignmer	nt are full	y and a	accurately d	lescribed a	bove by proper	
0	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, LL								A LAND, LLC		
R	PRINTED/TYPED NAME			SIGNATURE				i i		DATE	
K	4 - 4										
Т	16. TRANSPORTER (1)		-	17.	TF	RANSP	ORT	ER (2)			
R A	NAME: BOR BIVERPRISE			NAME:							
N	TEXAS I.D. NO.			TEXAS I.D. NO.							
S P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EMERGENCY CONTACT:							
O	EMERGENCY PHONE:			EMERGENCY PH	ERGENCY PHONE:						
R T	18. TRANSPORTER (1): Acknowledgment of	of receipt	of material	19. TRANSPO		(2): Ackı	nowled	gment of re	eceipt of m	aterial	
E	PRINTED/TYPED NAME	ريان	100 S	PRINTED/TYPED	NAME					Tara	
R S	- 17			2017					1.T.F.		
	SIGNATURE	DATE		SIGNATURE	=		_		ATE		
	Lea Land, LLC	ADD	RESS:	Marker 64, U.	S Hw	v 62/1	80	PHONE:	575_88	7-4048	
D F	Lea Land, LLC			Miles East of Ca		•	80,		373-66	7-4040	
I A S C	PERMIT NO.	_		20. COMMENTS	2715040	3 1 1111					
P I	WM-01-035 - New Mex	cico									
O L S I	21.DISPOSAL FACILITY'S CERTIFIC		N: I Hereby	certify that the above of	lescribed	wastes we	ere deli	ivered to th	is facility,	that the	
A T	facility is authorized and permitted to receive such v	wastes.				11					
L Y	AUTHORIZED SIGNATURE			CELL NO.		DA			TIN	ME	
	114712 V 1108	18				313	V2017	111			

MANIFEST # SHIPPING FACILITY NAME & ADDRESS: LOCATION OF MATERIAL: **EOG** Resources uniper BIP Fed #5 Lea County, NIVI 32.24898 -103.99232 三月最全0-015-28577 TRANSPORTER NAME & ADDRESS: TOR Engerorises LLC 3222 S Bronco, Hobbs, NM, 88240 SUT THE SIGN WASTE: QUANTITY on-Lazardous Contaminated - (- (- (-) \ -) \ - A - ; . e 76 Parez, Site Supervisor DATE: SIGNATURE OF CONTACTS Gleven Feren On behalf of EOG Resources A.M. D. T. ANSPORTER: (DRIVER) DATE: SIGNATURE OF DRIVER 921 -1. The DATE SIGNATURE 9-15-17 alle in Thea C4, it it is 52/180 kinni 15 = 3 5 6 6

		MANIFEST #
SHIPPING FACILITY NAME & ADDRI EOG Resources Juniper BIP Fed #5	ESS:	LOCATION OF MATERIAL:
lea County, NM API# 30-015-28577		32.24898 -103.99232
FRAMSPORTER NAME & ADDRESS: SOR Enterprises LLC		
5222 S Bronco, Hobbs, NM, 88240		
SCPIPITION OF WASTE: Non-Hazardous Contaminated Soil		QUANTITY:
ENCHITY CONTACT: Deve Perez, Site Supervisor HD	DATE:	SIGNATURE OF CONTACT:
), 3 663-37 6 2	DATE:	Signature of Contact. Sleven Perey On behalf of EOG Resources
AND DETERANSPORTER: (DRIVER))	On penall of EOG Resources
	DATE:	SIGNATURE OF DRIVER:
Marine Marine		
usPOSAL SITE: Halland U.C Lule Lictker 64, hwy 62/180 East	DATE:	SIGNATURE:

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

NON	-HAZARDOUS WASTE MANIF	EST	NO	119671	1. PA	GEOF_	2. TRAILER NO.			
	3. COMPANY NAME	4. ADDI	RESS			5. P	CK-UP DATE	0		
G	AND THE PROPERTY OF THE PARTY O	esan.	711				Succession of			
١	E.Q.G. Resources		Chambi				3/19/2017			
	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NC		- 16 mm	
	(432) 696-3705	1. licila	ria)	T. C	797	06				
E						TAINERS	9. TOTAL	10. UNIT	11. TEXAS	
100	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			No.	Type	QUANTITY	Wt/Vol.	WASTE ID #	
	anima transminima i i tan i i anama a ta kan i				A			V.		
N	avion-Regulated, Non-Hazardous Wast	经			2	CM		- K		
- N	b									
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	d. 1 1 1 1 1 2 1 1 2 1	E. (-)								
R	49,000 40,	20(<i>)</i>							
- A	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE P	ROFILE N	0.	
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	THE CA	CE OF	EMEDO	ENCV OD CDII	I CO	TITLA CUTE				
				ENCY OR SPIL	L, CO	VIACI	24 HOUR	EMERGE	NOV NO	
T	NAME	PHON	E NO				24-HOUR	EMERGE	NCY NU.	
	X & ONTOVEROS	675 F	1019				- " -			
	15.GENERATOR'S CERTIFICATION:	I Hereby	declare that	the contents of this co	nsionmer	at are fully	and accurately	described a	hove by proper	
0	shipping name and are classified, packed, marked, and	d labeled.	and are in a	I respects in proper con	ndition fo	r transport	by highway acc	ording to a	oplicable	
Ŭ	international and national government regulations, in	cluding a	pplicable sta	te regulations, and are	the same	materials p	reviously appro	oved by LE.	A LAND, LLC	
-				arari munor	_				DATE	
R	PRINTED/TYPED NAME			SIGNATURE					DATE	
Т	16. TRANSPORTER (1)	_		17.	TI	ANSDO	RTER (2)			
	10. IRANSI ORTER (1)			17.	11	ANGIO	KIEK (2)			
R	NAME:	4.1.		NAME:		- 0			70.00	
A	NAME: SUR CHITCHPAIRE	1.								
N	TEXAS I.D. NO:			TEXAS I.D. NO.						
S	IN CASE OF EMERGENCY CONTACT:	tiki men	Physical Property	IN CASE OF EMERGENCY CONTACT:						
P	IN CASE OF EMERGENCY CONTACT.	01111111	RUSK	IN CASE OF EMERGENCY CONTACT:						
0	EMERGENCY PHONE:	1-11-1	0.373	EMERGENCY PHONE:						
R	18. TRANSPORTER (1): Acknowledgment of	of receipt	of material	19. TRANSPOI	RTER ((2): Ackno	wledgment of i	eceipt of m	aterial	
T	- 1 1									
E	PRINTED/TYPED NAME)		PRINTED/TYPED	NAME					
R	- And State of the									
S	SIGNATURE	DATE	9/19/	OSIGNATURE			Γ	ATE	1.77	
			2700				DIVOLUE			
		ADDI	RESS:				PHONE:		- 40.45	
	Lea Land, LLC		Mile	Marker 64, U.	S. Hw	y 62/18	0,	575-88	7-4048	
D F			30 N	Miles East of Ca	ırlsbad	, NM				
IA	PERMIT NO.			20. COMMENTS						
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O L	21.DISPOSAL FACILITY'S CERTIFIC	ATION	J. I Heraber	partify that the charge d	agoribad	wastaa was	delivered to the	nie facility	that the	
SI	facility is authorized and permitted to receive such w		. I Hereby	certify that the above d	escribed	wastes were	denvered to the	ns racility,	mat me	
A T	racinty is audiorized and permitted to receive such v	vasios.								
L Y	AUTHORIZED SIGNATURE		A	CELL NO.		DATE		TIN	ME 25	
	/// / / / / / / / / / / / / / / / / / /	nd 1	MIL		250		ALVANE AND VICE			
		1	1 James				9/18/2017		1000	

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

NON	HAZARDOUS WASTE MANIFEST NO			119671	1. PA	GE_	OF	2. TRAIL	ER NO.	1
	3. COMPANY NAME	4. ADD	RESS	7			5. PICE	C-UP DATE		
G	E O S Reservoes	5500	Champs	ori Dr			- 9/	10/2017		
	PHONE NO.	CITY		STATE		ZIP	6. TNR	CC I.D. NO		THE RESERVE
E	(432) (98-3705	Mildle	end .	TX	79	198				
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8. CON No.	TAINI Typ		O, TOTAL UANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
N	alian Regulated, Non Hazardous West	in .			140.	191	,	O/HVIII I	***	WHOTE ID #
	b.								-	
E	c.									
	d	_	_			_	+			
R	A AUDO 4)						11 11 11	e News	
	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13	, WASTE P	ROFILE N	0.
A	PERCONO PENPE STATE COM:411									
	14. IN CA	SE OF	EMERG	ENCY OR SPIL	L. CO	NTAC	CT			
Т	NAME	PHON						24-HOUR	EMERGE	NCY NO.
_	JOE ONTIVEROS	575.0	1010							
	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper spinging name and are classified peaked marked and leveled and are in all respects in proper condition for transport by highway according to applicable									
О	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
R										
Т	16. TRANSPORTER (1)	_	_	17.	TI	ANS	SPORT	TER (2)	_	
R						AZ KI VK	or OK	LIC (2)		
A	NAME: SIN ENGERNMENT			NAME:						
N S	TEXAS I.D. NO.			TEXAS I.D. NO.						
P	IN CASE OF EMERGENCY CONTACT:		RUSK	IN CASE OF EMERGENCY CONTACT:						
O R	EMERGENCY PHONE:	13410	230	EMERGENCY PHONE:						
T	18. TRANSPORTER (1): Acknowledgment of	of receipt	of material	19. TRANSPORTER (2): Acknowledgment of receipt of material						
E	PRINTED/TYPED NAME			PRINTED/TYPED NAME						
R S										
	SIGNATURE	DATE	0/18/	SIGNATURE				D	ATE	
		ADD	RESS:					PHONE:		
D E	Lea Land, LLC			Marker 64, U.		-			575-88	7-4048
D F I A			30 N	Miles East of Ca	arlsbac	I, NN	<u>/I</u>			
S C	PERMIT NO.	ioo		20. COMMENTS						
P I O L	WM-01-035 - New Mex	100								
SI	21.DISPOSAL FACILITY'S CERTIFIC		: I Hereby o	certify that the above d	escribed	wastes	were de	livered to th	is facility, t	hat the
A T	facility is authorized and permitted to receive such w	vastes.	-							
L Y	AUTHORIZED SIGNATURE			CELL NO.		I	DATE		TIN	ИЕ
	LUTIL X	17	WH				0.7	18/2017		1.

		MANIFEST #
SHIPPING FACILITY NAME & ADDREOG Resources	RESS:	LOCATION OF MATERIAL:
Perdomo BMP State Com #1H Eddy County, NM API# 30-035-36499		32.20029 -104.15024
TRANSPORTER NAME & ADDRESS	·	
SDR Enterprises LLC 6222 S Bronco, Hobbs, NM, 88240 Phone: (575) 441-7330)	·
DISCRIPTION OF WASTE:		QUANTITY:
Non-Hazardous Contaminated Soi		20
	9	
FACILITY CONTACT:	19	
Steve Perez, Site Supervisor GHD		
c /5-689-5 _/ /82	DATE:	SIGNATURE OF CONTACT:
		Glaven Peren
		On behalf of EOG Resources
BAME OF TRANSPORTER: (DRIVER	4)	28
	DATE:	SIGNATURE OF DRIVER:
	9-18-17	Emli Rodensi
DISPOSAL SITE:	DATE:	SIGNATURE:
realtand FLC Twile warker 64, Hwy 62/180 East Tarishad FWI 88220	9-18-17	S. Donzaly

	KANSPORTER'S	MANIFEST #
SHIPPING FACILITY NAME & ADDI EOG Resources	RESS:	LOCATION OF MATERIAL:
Perdomo BMP State Com #1H Eddy County, NM API# 30-015-36499		32.20029 -104.15024
TRANSPORTER NAME & ADDRESS SDR Enterprises LLC 6222 S Bronco, Hobbs, NM, 88240 Phone: (575) 441-7330		
DISCRIPTION OF WASTE:		QUANTITY:
Non-Hazardous Contaminated So	il -	20
FACILITY CONTACT: Steve Perez, Site Supervisor GHD	,	
±75-689-5782	DATE:	SIGNATURE OF CONTACT:
		Eleven Acrey On behalf of EOG Resources
waw.i of Transporter: (Driver	R)	
(according)	DATE:	SIGNATURE OF DRIVER:
DISPOSAL SITE: Lea Land LLC Tothe rozager 64, Hwy 62/180 bast Canisbad, NM, 88220	DATE: 9-18-17	SIGNATURE: Donzalz

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

NON	-HAZARDOUS WASTE MANIF	EST	NO	119674	1. PA	GEC	DF	2. TRAIL	ER NO.	006	
	3. COMPANY NAME	4. ADD	RESS		5. PICK-UP DATE						
G	E O G Resources	7508	Champi	on Dr.			9.4	8/2017			
	PHONE NO.	CITY		STATE		ZIP	. TNR	CC I.D. NO			
E	(433) 888-3785	Mida	dut	r	707	706					
I.	7. NAME OR DESCRIPTION OF WASTE SHIPPE	ED:			8. CON No.	TAINER Type		TOTAL JANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
N	arlan-Regulated, Non-Harandona Wasi	Non-Regulated, Non-Hazardoua Waste					Ì		Α.,		
,	b,										
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R	WT 38370 40	11/1 01	7)								
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				ENCY OR SPIL	L, CO	NTAC'	Г				
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	LOE ONTIVEROS		387-40M8	d		C.	111		ام المحالية	hava hu maanaa	
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R	PRINTED/TYPED NAME			SIGNATURE		"				DATE	
T	16. TRANSPORTER (1)			17.	TF	RANSI	PORT	ER (2)			
R	NAME:			NAME:							
A N	TEXAS I.D. NO.	LLC		TEVAS ID NO							
S	DI CACI OF DIVIDODINOV CONTACT			TEXAS I.D. NO.							
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R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of the control of the contr	of receipt	of material			(2): Aci	knowled	dgment of r	eceipt of m	aterial	
T E	PRINTED/TYPED NAME	عالحد	0	PRINTED/TYPED	19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME						
R S	SIGNATURE	DATE	(5)((6)	SIGNATURE				D	ATE		
-	L L R R		98-707	.017	==		_	PHONE:			
	Lea Land, LLC	ADD.	RESS:	e Marker 64, U.	с ни	v 62/	180	PHONE:	575-88	7_4048	
D F	Lea Land, LLC			Miles East of Ca		•	1		373-00	7-4040	
I A	PERMIT NO.		501	20. COMMENTS	al loode	-9 1 4141					
S C P I	WM-01-035 - New Mex	cico									
O L	21.DISPOSAL FACILITY'S CERTIFIC	CATION	N: I Hereby	Lectify that the above d	lescribed	wastes v	vere del	ivered to th	uis facility 1	hat the	
S I A T	facility is authorized and permitted to receive such v				54		113 40		,,		
L Y	AUTHORIZED SIGNATURE	- 1		CELL NO.	_	- DA	ATE		TIN	ME: 20	
	/ notes / lin	AAI	114								

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

NON	-HAZARDOUS WASTE MANIF	NO	119674	1 PA	1. PAGEOF 2. TRAILER NO.						
	3. COMPANY NAME	4. ADD	RESS	5. PICK-UP DATE							
G	EDG Resources	SSIE	Champi								
	PHONE NO.	CITY		STATE	ZIP 6. TNRCC I.D. NO.						
E	(432) 006-3705	Midte				106					
2	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:				TAINERS		10. UNIT Wt/Vol.	11, TEXAS WASTE ID #		
N	a				No.	Туре	QUANTITY	WU/VOI.	WASTE ID#		
14	THE PERSON NAMED IN THE PE										
	b.										
E	c,		10								
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R	TH 20,000 40760										
	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE I	ROFILE N	O.		
A	PERDOMO BMP STATE COM #) (
	14. IN CA	SE OF	EMERG	ENCY OR SPIL	L, CO	NTACT					
Т	NAME	IE NO				24-HOUF	EMERGE	NCY NO.			
	DE ONTWEROS	87-1010									
0	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										
U	international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, 1							A LAND, LLC			
R	PRINTED/TYPED NAME			SIGNATURE					DATE		
K									n i m		
Т	16. TRANSPORTER (1)			17.	TF	RANSPO	ORTER (2)				
R A	NAME:			NAME:							
N	TEXAS I.D. NO.			TEXAS I.D. NO.							
S	IN CASE OF EMERGENCY CONTACT:										
P O	3918			IN CASE OF EMERGENCY CONTACT:							
R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of	of receipt	of material	EMERGENCY PHONE: 19. TRANSPORTER (2): Acknowledgment of receipt of material							
T	16. TRAINSTORTER (1), Acknowledgment (or receipt	of material	19. I KANSPORTER (2): Acknowledgment of receipt of material							
E R	PRINTED/TYPED NAME		LUCE	PRINTED/TYPED NAME							
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	132571	ADD	RESS:		_	_	PHONE:				
	Lea Land, LLC			Marker 64, U.	S. Hw	y 62/18		575-88	7-4048		
D F			30 N	Miles East of Carlsbad, NM							
I A S C	PERMIT NO.			20. COMMENTS			12.51				
P I	WM-01-035 - New Mex	ico									
O L S I	21.DISPOSAL FACILITY'S CERTIFIC	ATION	N: I Hereby o	ertify that the above d	escribed	wastes we	re delivered to t	his facility,	that the		
A T	facility is authorized and permitted to receive such w							,			
L Y	AUTHORIZED SIGNATURE			CELL NO.	-	DAT	E	TII	ME ME		
	/ April / Jan	/\	104			11111			1		
	£	14		-			0.1902017				

MANIFEST # SHIPPING FACILITY NAME & ADDRESS: LOCATION OF MATERIAL: **EOG** Resources Perdomo BMP State Com #1H Eddy County, NM 32.20029 -104.15024 API# 30-015-36499 TRANSPORTER NAME & ADDRESS: SDR Enterprises LLC 6222 S Branco, Hobbs, NM, 88240 Phone: (5/5) 441-7330 DISCRIPTION OF WASTE: QUANTITY: Non-Hazardous Contaminated Soil **EACILITY CONTACT:** Steve Perez, Site Supervisor 635 a 75-689-5782 DATE: SIGNATURE OF CONTACT: Thewen Feren On behalf of EOG Resources HAMIL OF TRANSPORTER: (DRIVER) DATE: SIGNATURE OF DRIVE DISPOSAL SITE: DATE: SIGNATURE: realland LC while wather 64, hwy 62/180 bast Carisbad, NVI, 88220

7	-	MANIFEST #
SHIPPING FACILITY NAME & ADDRI EOG Resources	ESS:	LOCATION OF MATERIAL:
Perdomo BMP State Com #1R Eddy County, NM API# 30-015-36499		32.20029 -104.15024
TRANSPORTER NAME & ADDRESS: SDR Enterprises LLC 6222 S Branco, Hobbs, NM, 88240 Phone: (575) 441-7330		×.
DISCRIPTION OF WASTE: Non-Hazardous Contaminated Soil		QUANTITY:
	e e	
FACILITY CONTACT: Steve Perez, Site Supervisor GBD	19	×4
275-683-5782	DATE:	SIGNATURE OF CONTACT:
		Sleven Perey On behalf of EOG Resources
AME DE TRANSPORTER: (DRIVER)	101	On behalf of EOG Resources
Rene Queza	DATE:	SIGNATURE OF DRIVER
DISPOSAL SITE: Fea Land FLC Rulle Walker 64, Hwy 62/180 East Carlabad, NVI, 88220	DATE:	SIGNATURE: Lonzaly

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

NON	-HAZARDOUS WASTE MANIF	EST	NO	119675	1. PA	GEOF_	2. TRAII	ER NO.	020	
	3. COMPANY NAME	4. ADD	RESS		5. PICK-UP DATE					
G	EOO Resources	5509	The latter than	on Or	9/18/2017					
	PHONE NO.	CITY		STATE	ZIP 6. TNRCC I.D. NO.					
E	(432) 596-3705	1.11/11/2	or set	ĵ v	TV 70706					
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8. CON'	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
N	ation-Regulated, Non Hazardous Wast	क			ł	CM.		V		
17	b.									
E	c.					2				
R	4706D 471	20								
	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE P	ROFILE N	O	
A	PERDOMO "BIJE" STATE COM #11									
**				ENCY OR SPILI	L, COI	NTACT				
Т	NAME		IE NO				24-HOUR	EMERGE	NCY NO.	
	JOE ONTIVEROS		#1 IDAS						- V	
0	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	
Т	16. TRANSPORTER (1)		_	17.	TF	RANSPO	RTER (2)			
R					-		(-)		4	
A	NAME: EDR ENTERPRISE	110		NAME:						
N	TEXAS I.D. NO.			TEXAS I.D. NO.	EXAS I.D. NO.					
S	IN CASE OF EMERGENCY CONTACT:	Histi	- 원 /왕(IN CASE OF EME	ERGENCY CONTACT:					
0	EMERGENCY PHONE:			EMERGENCY PHO	ONE.				11 11 12 1	
R	18. TRANSPORTER (1): Acknowledgment of	of receipt	of material	19. TRANSPOR		(2): Ackno	wledgment of i	receipt of m	aterial	
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S	SIGNATURE SELECT MERCOLL	DATE	9/18/	20 SIGNATURE			Г	ATE	11	
		ADD	RESS:	di-			PHONE:			
	Lea Land, LLC		Mile	Marker 64, U.S	S. Hw	y 62/18	0,	575-88	7-4048	
D F				Miles East of Ca						
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O L	21.DISPOSAL FACILITY'S CERTIFIC	ATION	V. I Haraby	pertify that the above de	ecribed	wastes wer	e delivered to the	nis facility	that the	
S I A T	facility is authorized and permitted to receive such v		Thereby (corary mai die above de	oscilled	wasies wer	C denvered to the	no raciiity,	mat me	
L Y	AUTHORIZED SIGNATURE		Λ	CELL NO.		DATE	3	TI	ME 25	
	Danton I lon	40	117				9/18/2017			

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

NON	NON-HAZARDOUS WASTE MANIFEST NO			119675	1. PA	GEOF	2, TRAII	LER NO.	(DEC)	
	3. COMPANY NAME	4. ADD	RESS			5. PICK-UP DATE				
G	E O G Remutres	20500					9/18/2017		776000	
	PHONE NO.	CITY		STATE		ZIP 6.	TNRCC LD. NO)		
	Appropriate Approp	CITI		SIME		Zii Jo.	Timee Latine	7	170	
E	P432 00F-3703	PATRICILE	MICE.	110	In COM	TAINERS	9. TOTAL	10. UNIT	11. TEXAS	
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D;			No.	TAINERS	QUANTITY	Wt/Vol	WASTE ID #	
N	al lost-Regulated, Non Hazarnova Wast	e			110.	CM	- Quinting	Y		
	b.									
Е	c.									
R	4000 44									
	12. COMMENTS OR SPECIAL INSTRUCTIONS:	7			13. WASTE P	ROFILE N	O.			
A	PERDOMO "BMP" STATE COM # 1 !		110	0						
	14. IN CA	SE OF	EMERG	ENCY OR SPIL	L, CO	NTACT				
Т	NAME				24-HOUR	EMERGE	NCY NO.			
	JOE ONTIVEROS									
О	15.GENERATOR'S CERTIFICATION: 1 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							oplicable		
	PRINTED/TYPED NAME			SIGNATURE					DATE	
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T	16. TRANSPORTER (1)			17.	TF	RANSPO	ORTER (2)			
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A N	SOR IS ITEMPRISE									
S	TEXAS I.D. NO.			TEXAS I.D. NO.						
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EMERGENCY CONTACT:						
0	EMERGENCY PHONE:			EMERGENCY PHONE:						
R	18. TRANSPORTER (1): Acknowledgment of	of receipt	of material	19. TRANSPORTER (2): Acknowledgment of receipt of material						
T	the state of the s	4-1	8-20"	The Marcha 112						
E R	PRINTED/TYPED NAME	CLA		PRINTED/TYPED	NAME		7 36	1		
S	SIGNATURE	DATE	0.70	SIGNATURE			I	DATE	- NW	
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	Lea Land, LLC	ADD		Marker 64, U.	Ç LI.	v 62/19		575-88	7-4048	
D F	Lea Land, LLC						30,	373-88	/-4040	
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LY	AUTHORIZED SIGNATURE		7	CELL NO.		DAT	'C	TIN	1E	
	AUTHORIZED SIGNATURE			CELL NO.		DAI	E	110	AL.	
	611 A 2 1	+11	114				9/18/2017		1.	

		MANIFEST #
SHIPPING FACILITY NAME & ADDREOG Resources	RESS: LOC	CATION OF MATERIAL:
Perdomo BMP State Com #1H Eddy County, NM API# 30-015-36499		32.20029 -104.15024
TRANSPORTER NAME & ADDRESS SDR Enterprises LLC 6222 S Bronco, Hobbs, NM, 88240 Phone: (575) 441-7330		

DISCRIPTION OF WASTE:		QUANTITY:
Non-Hazardous Contaminated Soi	9	48 160
FACILITY CONTACT: Steve Perez, Site Supervisor GHD 575-689-6782	DATE:	SIGNATURE OF CONTACT:
		Sleven Peren On behalf of EOG Resources
AME OF TRANSPORTER: (DRIVER	(1)	On behalf of Lod Resources
	DATE:	SIGNATURE OF DRIVER:
9-	-18-2017	Ago Mondora
DISPOSAL SITE: Fea Land FLC Julie Walker 64, Hwy 62/180 East	DATE: 9-18-17	SIGNATURE:
Carisbad, AMI, 88220	·	9.1

	<u></u>	MANIFEST #
SHIPPING FACILITY NAME & ADDRI EOG Resources	ESS: LOC	CATION OF MATERIAL:
Perdomo BMP State Com #1H Eddy County, NM API# 30-015-36499		32.20029 -104.15024
TRANSPORTER NAME & ADDRESS: SDR Enterprises LLC 6222 S Branco, Hobbs, NM, 88240 Phone: (575) 441-7330	· ·	
DISCRIPTION OF WASTE:		QUANTITY:
Non-Hazardous Contaminated Soil	2	42060
FACILITY CONTACT: Steve Perez, Site Supervisor GHD 5 (5-688-5782	OATE:	SIGNATURE OF CONTACT:
		Eleven Peren On behalf of EOG Resources
LAME OF TRANSPORTER: (DRIVER)	a	· · · · · · · · · · · · · · · · · · ·
	DATE:	SIGNATURE OF DRIVER:
. 9-1	18-2017	doe Mendoza
DISPOSAL SITE: Lea Land LLC Ivide Ivia∰er 64, Hwy 62/180 East Carisbad, NM, 88∠20	DATE:	signature: