

November 20, 2023

New Mexico Oil Conservation Division New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Site Remediation Update Report Seymour 6 San Juan County, New Mexico Hilcorp Energy Company NMOCD Incident No: nAPP2224144740

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Site Remediation Update* for a release at the Seymour 6 natural gas production well (Site). The Site is located on Federal land managed by the Bureau of Land Management (BLM) in rural San Juan County, New Mexico (Figure 1). This report includes a summary of remediation activities performed at the Site to remove impacted soil and vegetation originating from the overtopping of oil from a below grade tank (BGT). The Site is located in Unit M, Section 14, Township 31 North, Range 9 West, in rural San Juan County, New Mexico.

#### 1.0 SITE BACKGROUND

On August 18, 2022, Hilcorp discovered a 20-barrel (bbl) release of oil at the Site. Significant precipitation at the Site caused a BGT to overflow into the secondary containment berm. A section of the earthen berm subsequently failed and released fluids outside of the containment and ultimately migrated off the facility pad into an adjacent dry wash. The volume released was determined by the operator's monthly tank gauging data. Upon discovery, Hilcorp immediately emptied the remaining fluids from the BGT and retained a vacuum truck to recover any possible standing fluids at the Site (approximately 2 bbls). On August 19, 2022, Hilcorp excavated approximately 55 cubic yards of visibly impacted soils from the original footprint of the well pad at the Site for disposal at a permitted facility.

Hilcorp reported the release to the New Mexico Oil Conservation Division (NMOCD) and the BLM within 24 hours of discovery of the release. Hilcorp submitted a *Major Undesirable Event Report* to the BLM on August 19, 2022 and submitted a Form C-141 to the NMOCD on August 29, 2022 and a revised Form C-141 on August 31, 2022 (an error was discovered in the initial Form C-141 submitted on August 29, 2022). The NMOCD has assigned the Site Incident Number nAPP2224144740.

Due to the nature of the release migrating over a large portion of the well pad and into an adjacent dry wash, as well as the need for a Cultural Resources Inventory and Threatened and Endangered Species Evaluation to be conducted for off-pad areas per the BLM, Hilcorp submitted a *Remediation Work Plan* (prepared by Ensolum, dated September 29, 2022) to the NMOCD and BLM for review and approval. Specifically, the *Remediation Work Plan* described the proposed

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remediation and sampling activities and requested a variance for the frequency of excavation confirmation samples to be collected at the Site. The NMOCD and BLM approved the *Remediation Work Plan* and the NMOCD approved a variance for the frequency of excavation sampling on the well pad to be decreased from every 200 square feet to every 500 square feet for floor samples and from every 200 square feet to every 400 square feet for sidewall samples. Additionally, the NMOCD approved a sampling frequency of one sample per 100 linear feet for the collection of soil samples within the adjacent wash.

#### 1.1 SITE CHARACTERIZATION AND CLOSURE CRITERIA

As part of the Site investigation, local geology/hydrogeology and nearby sensitive receptors (shown on Figure 2) were assessed in accordance with Title 19, Chapter 15, Part 29, Sections 11 and 12 (19.15.29.11 and 12) of the New Mexico Administrative Code (NMAC). Based on the information presented in Ensolum's *Remediation Work Plan* and in accordance with the *Table I, Closure Criteria for Soils Impacted by a Release* (19.15.29.12 of the NMAC), the following "Closure Criteria" are applied to the Site based on the proximity to a significant watercourse:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) as a combination of gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO): 100 mg/kg
- Chloride: 600 mg/kg

#### 2.0 2022 SOIL SAMPLING ACTIVITIES

At the request of the BLM, Hilcorp conducted a *Cultural Resources Inventory* prior to conducting sampling work at the Site. Additionally, the BLM conducted an internal *Threatened and Endangered Species Evaluation* prior to the start of work to assess the presence of sensitive ecological receptors in the release pathway. No cultural resources or threatened and endangered species were discovered in the project area and the BLM approved the proposed work to be conducted within a 20-foot buffer area on either side of the dry wash.

After removing approximately 6 inches (0.5 feet) of soil from the well pad (conducted in August 2022 and based on petroleum hydrocarbon staining and odors), and once BLM approval was received for off-pad activities, Ensolum and Hilcorp personnel collected soil samples on December 8, 2022, to assess soil conditions both on the well pad and in the dry wash. Five-point composite soil samples were collected from the floor of the well pad excavation at a frequency of one sample per 500 square feet (samples SS01 through SS20). Due to the shallow nature of the excavation (0.5 feet in depth), shallow sidewall areas were incorporated into the composite floor samples. Additionally, 5-point composite samples were collected from the dry wash at a frequency of one sample for every 100 linear feet (samples WS01 through WS17). The entire release extent is shown on Figure 3, with specific sampling locations for the wash and well pad presented on Figures 4 and 5, respectively.

The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported to Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. All samples were submitted for analyses of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0.



Analytical results indicated two samples collected within the wash (WS01 and WS10) exceeded the applicable Closure Criteria for TPH. Concentrations of TPH also exceeded the Closure Criteria in all on-pad soil samples with the exception of samples SS02 and SS17. Additionally, concentrations of chloride exceeded the Closure Criteria in only one on-pad sample, SS08. All other COCs analyzed during the December 8, 2022, sampling event were in compliance with the applicable NMOCD Table I Closure Criteria. Analytical results collected during the December 2022 sampling event are summarized in Table 1, with complete laboratory analytical reports attached as Appendix A.

#### 3.0 JUNE 2023 ADDITIONAL WASH EXCAVATION AND DELINEATION SAMPLING

Based on the soil sampling results described above, Hilcorp conducted additional delineate efforts in on-pad areas on June 19, 2023 using a backhoe to assess the vertical extent of soil impacts at the Site. Specifically, sampling areas with the highest TPH results from the December 2022 sampling event were assessed during the pothole delineation effort. Potholes were advanced in the center of the respective sampling areas indicated on Table 2 and Figure 5. Results from the pothole delineation indicated COC concentrations were compliant with the NMOCD Closure Criteria at depths of 1-foot below ground surface (bgs) and greater and impacted soil was limited to shallow soil at the Site. Delineation soil sample analytical results collected during this event are summarized in Table 2, with complete laboratory analytical reports attached as Appendix A.

After delineation activities were completed, additional soil was removed from areas WS01 and WS10 located in the adjacent dry wash. Approximately 3 to 4 inches of soil was removed from these areas prior to resampling. Five-point composite samples were recollected from these areas at a frequency of one sample for every 100 linear feet and labeled WS01A and WS10A. Samples were handled in the manner described above and submitted to Hall for analysis of TPH, BTEX, and chloride. Analytical results indicated sample WS10A was in compliance with the NMOCD Closure Criteria; however, soil sample WS01A contained TPH concentrations continuing to exceed the Closure Criteria of 100 mg/kg. Prior to sampling, the NMOCD and the BLM were notified of the upcoming Site activities (Appendix B). Confirmation wash sample results collected during this event are summarized in Table 1, with complete laboratory analytical reports attached as Appendix A.

# 4.0 SEPTEMBER AND OCTOBER 2023 EXCAVATION AND CONFIRMATION SOIL SAMPLING

Once BLM approved the removal of on-pad equipment at the Site (Appendix B), Hilcorp conducted extensive soil removal activities on September 13, 2023, across the well pad and within the dry wash at area WS01. Based on the previous analytical results gathered from well pad samples SS01 through SS20, all sampling areas, except SS02 and SS20, required additional excavation to remove impacted soil. Approximately 3 to 4 inches of additional soil was removed in areas SS01 and SS03 through SS19. Five-point composite samples were recollected on September 13, 2023 from these areas and submitted to Hall for analysis of TPH, BTEX, and chloride.

Analytical results indicated TPH concentrations were greatly reduced and a majority of sampling areas were in compliance with NMOCD Closure Criteria; however, TPH concentrations exceeding the Closure Criteria were still present in soil in areas WS01, SS01, SS03, SS06, SS10, SS13, SS14, SS15, and SS19. As such, Hilcorp conducted additional soil removal on October 24, 2023 and Ensolum collected additional 5-point composite confirmation soil samples from these areas. As indicated by the data, all sampling areas were in compliance with the NMOCD Closure Criteria with the exception of areas SS03 and SS15. Analytical results collected during these events are summarized in Table 1, with complete laboratory analytical reports attached as Appendix A. Photographs taken during the sampling event are presented in Appendix C.



#### 4.1 ASSESSMENT OF HISTORICAL IMPACTED SOIL

During the September 13, 2023 excavation work, stained soil was discovered at the northeast corner of area SS03 at a depth of 3 feet bgs that appeared to originate from a historical release. Discrete sample SS01d (shown on Figure 6) was collected at a depth of 3 feet from the stained soil in order to assess petroleum hydrocarbon concentrations resulting from a historical release. Analytical results indicated TPH concentrations exceeded the Closure Criteria in this sample. To further assess the origins of impacts found in SS01d, several delineation potholes were advanced on October 24, 2023, south of SS01d. Samples were collected from one pothole, PH02, and submitted for laboratory analysis of TPH, BTEX, and chloride at depths of 2.5 and 5 feet bgs. Results indicated elevated TPH concentrations exceeding Closure Criteria in both samples. Analytical results collected during these events are summarized in Table 2, with complete laboratory analytical reports attached as Appendix A.

#### **CONCLUSIONS AND RECOMMENDATIONS**

Based on soil excavation activities and confirmation soil sampling, a majority of impacted soil resulting from the August 2022 release has been removed from the Site. Samples collected from the wash excavation (WS01 through WS17) were in compliance with NMOCD Table I Closure Criteria indicating all impacted soil within the wash has been successfully removed. Additionally, all confirmation samples collected from the well pad were in compliance with the applicable Closure Criteria with the exception of SS03 and SS15. Hilcorp recommends removing additional soil from these areas to address the limited volume of remaining impacts.

Based on the shallow nature of impacted soil resulting from the August 2022 release and the vertical separation between the shallow excavation and deeper impacts discovered at SS01d and PH02, it appears that Hilcorp encountered a historical release during the remediation efforts. Hilcorp recommends conducting additional delineation activities to assess the vertical and lateral extents of the historical impacts at the Site.

The proposed remediation and delineation activities will be completed within 120 days of BLM and NMOCD approval of this report and BLM approval of equipment removal required for the additional delineation work. Hilcorp will immediately inform the NMOCD of any alterations to this schedule due to third-party availability, equipment shortages, and/or weather delays. Hilcorp believes remedial actions completed to date and the proposed actions to address residual, historical impacts are protective of human health, the environment, and groundwater.

We appreciate the opportunity to provide this report to the BLM and NMOCD. If you should have any questions or comments regarding this document, please contact the undersigned.

Sincerely, **Ensolum, LLC** 

Stuart Hyde, LG Senior Geologist (970) 903-1607 shyde@ensolum.com

Dan Moir, PG Senior Managing Geologist (303) 887-2946 dmoir@ensolum.com



Hilcorp Energy Company Site Remediation Update Report Seymour 6

#### Attachments:

Figure 1:	Site Location Map
Figure 2:	Site Receptor Map
Figure 3:	Initial Release Extent
Figure 4:	Composite Soil Sample Locations – Wash
Figure 5:	Composite Soil Sample Locations – Well Pad
Figure 6:	Delineation Pothole Locations
Table 1: Table 2:	Confirmation Soil Sample Analytical Results Delineation Soil Sample Analytical Results
Annendix A	Laboratory Analytical Reports

- Appendix A: Laboratory Analytical Reports
- Appendix B: Agency Correspondence

Appendix C: Site Photographs

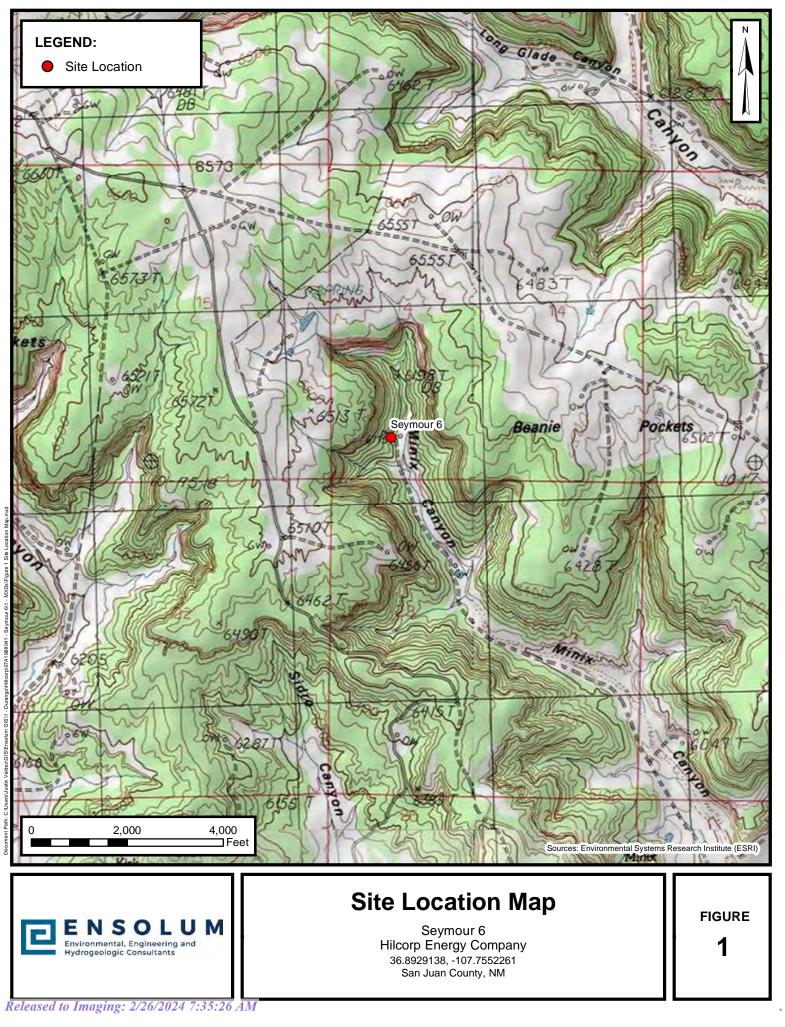
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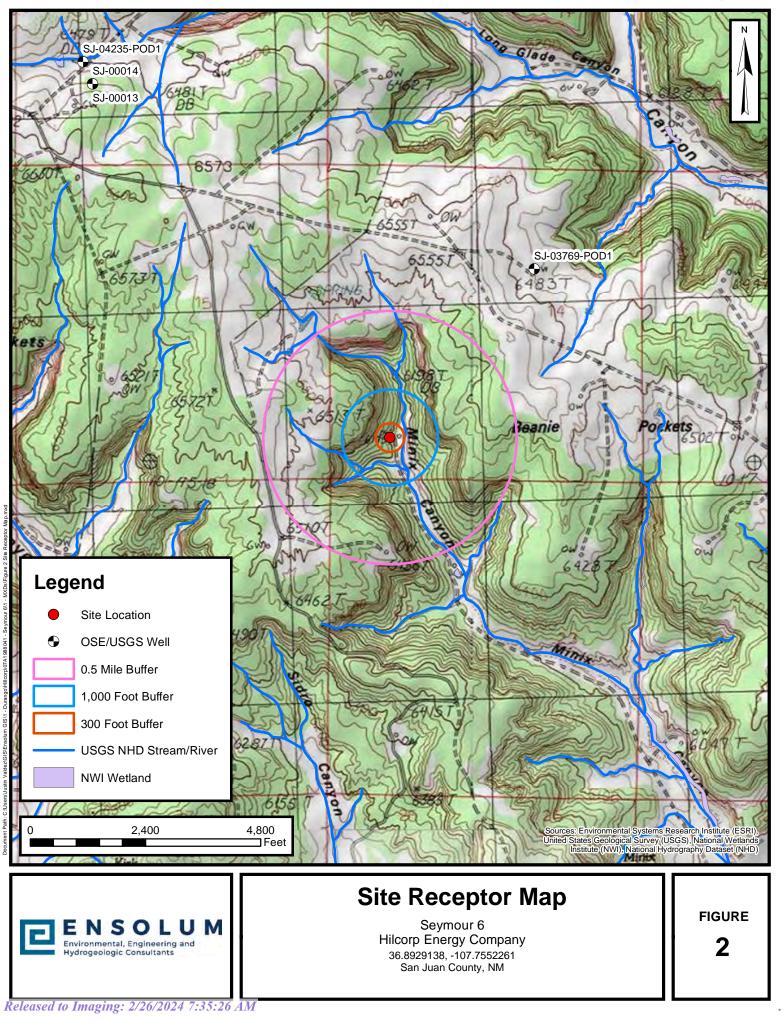


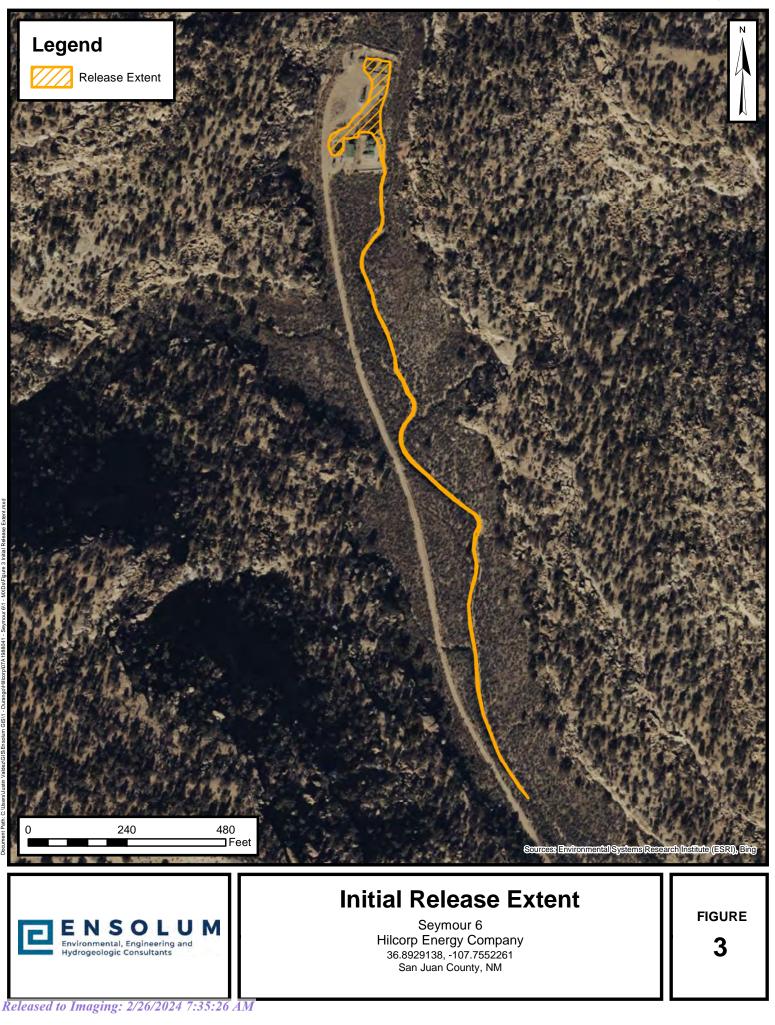
# **FIGURES**

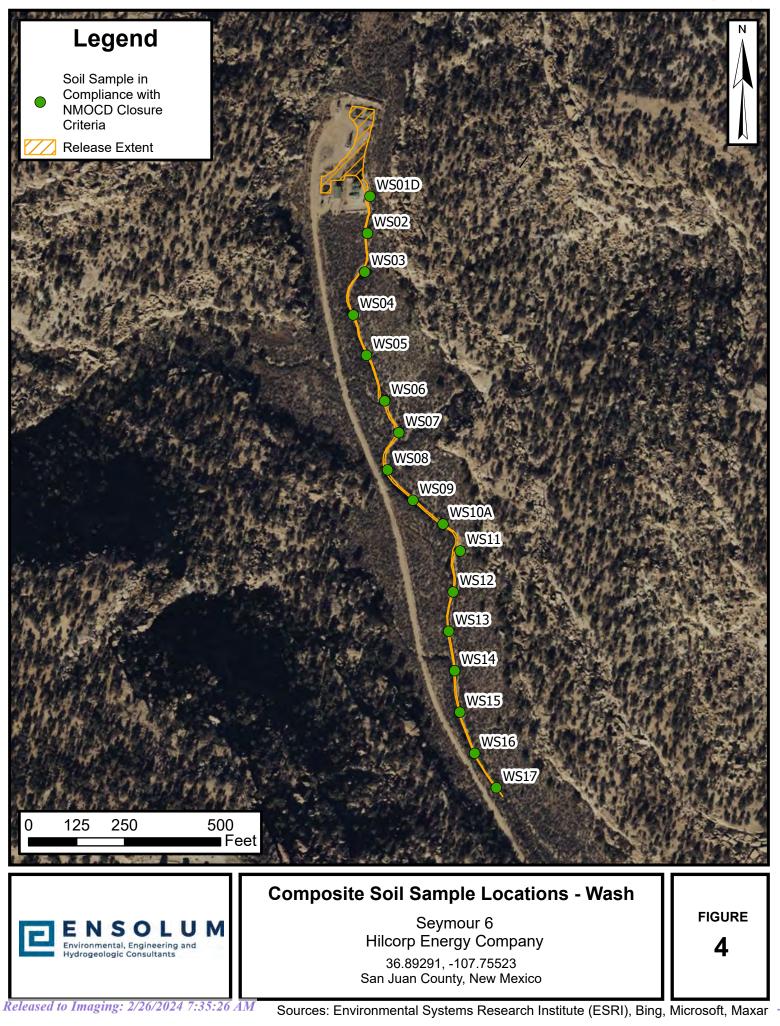
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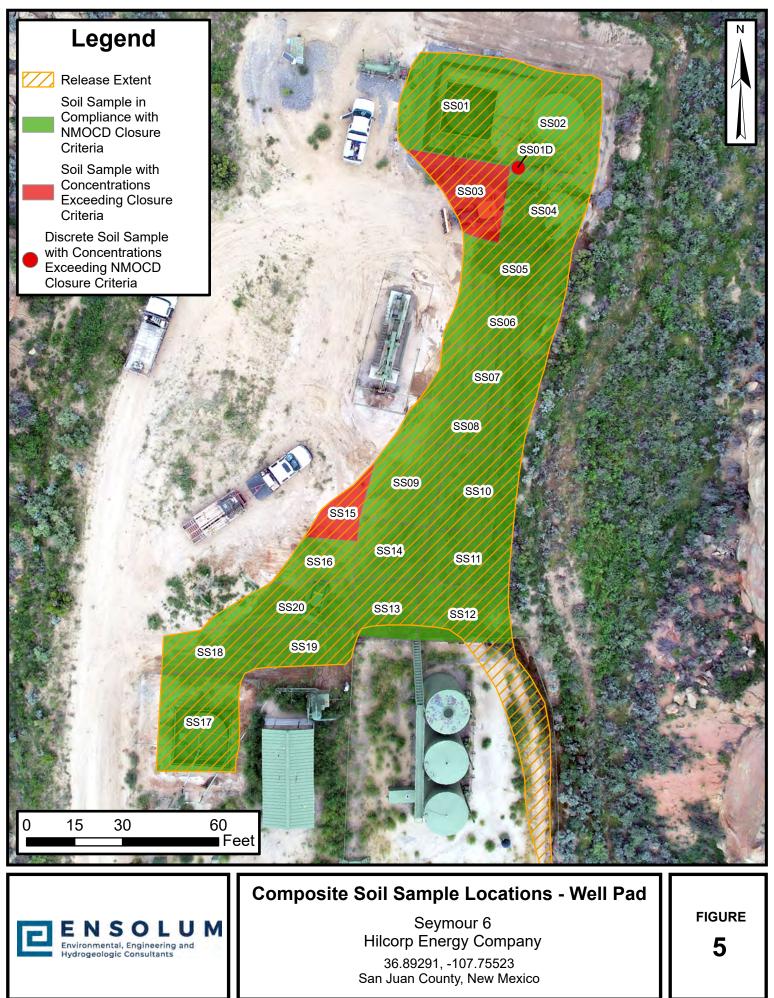








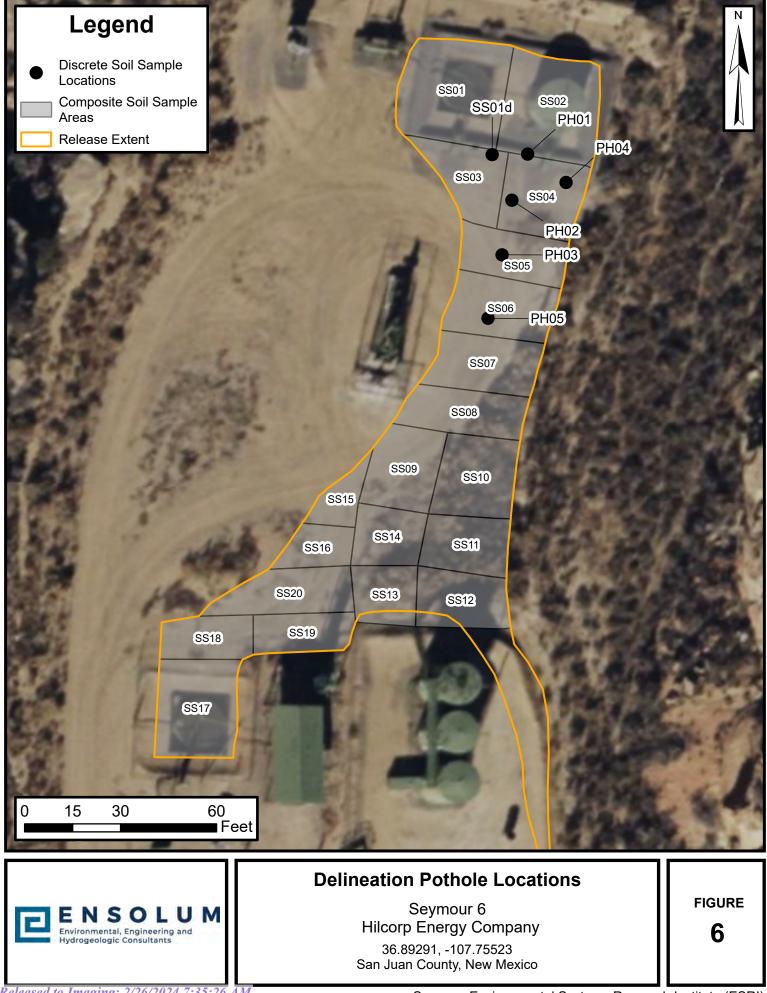
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Sources: Environmental Systems Research Institute (ESRI) .



# TABLES

# E N S O L U M

	TABLE 1         CONFIRMATION SOIL SAMPLE ANALYTICAL RESULTS         Seymour 6         Hilcorp Energy Company         San Juan County, New Mexico											
Sample Designation	Date	Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure 0	Criteria for Soils I Release	mpacted by a	10	NE	NE	NE	50	NE	NE	NE	100	600
					Wash Cor	nposite Soil Sar	nples		•	-	•	
WS01	12/8/2022	0 - 0.25	<del>&lt;0.025</del>	<0.049	<0.049	<0.098	<0.098	<4.9	<del>1,000</del>	<del>590</del>	<del>1,590</del>	<60
WS01A	6/19/2023	0.5	<del>&lt;0.025</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.10</del>	<del>&lt;0.10</del>	<5.0	410	240	650	<60
WS01c	<del>9/13/2023</del>	0.75	<del>&lt;0.024</del>	<del>&lt;0.048</del>	<del>&lt;0.048</del>	<del>&lt;0.097</del>	<del>&lt;0.097</del>	≪4.8	85	<del>110</del>	<del>195</del>	<60
WS01D	10/24/2023	1.0	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<10	<50	<50	<60
WS02	12/8/2022	0 - 0.25	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<14	<46	<46	<60
WS03	12/8/2022	0 - 0.25	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<13	<44	<44	<59
WS04	12/8/2022	0 - 0.25	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<47	<47	<59
WS05	12/8/2022	0 - 0.25	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<47	<47	<60
WS06	12/8/2022	0 - 0.25	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<14	<48	<48	<60
WS07	12/8/2022	0 - 0.25	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<48	<48	<60
WS08	12/8/2022	0 - 0.25	<0.024	<0.049	<<0.049	<0.098	<0.098	<4.9	<14	<48	<48	<61
WS09	12/8/2022	0 - 0.25	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<13	<45	<45	<59
WS10	<del>12/8/2022</del>	0-0.25	≪0.024	<del>&lt;0.049</del>	<del>&lt;0.049</del>	<0.098	<del>&lt;0.098</del>	<4.9	41	<del>79</del>	120	<del>&lt;60</del>
WS10A	6/19/2023	0.5	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.6	<43	<43	<60
WS11	12/8/2022	0 - 0.25	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<15	<48	<48	<60
WS12	12/8/2022	0 - 0.25	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<15	<50	<50	<60
WS13	12/8/2022	0 - 0.25	<0.024	<0.049	<0.049	<0.098	<0.098	>4.9	<14	<47	<47	<60
WS14	12/8/2022	0 - 0.25	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<14	<47	<47	<60
WS15	12/8/2022	0 - 0.25	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<13	<43	<43	<60
WS16	12/8/2022	0 - 0.25	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<46	<46	<60
WS17	12/8/2022	0 - 0.25	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<46	<46	<60
					Well Pad C	omposite Soil Sa	amples					
SS01	12/8/2022	0-0.25	<0.024	<del>&lt;0.048</del>	< <del>0.048</del>	<0.097	<0.097	<4.8	360	380	740	<60
SS01b	<del>9/13/2023</del>	0.5	<del>&lt;0.019</del>	<del>&lt;0.038</del>	<del>&lt;0.038</del>	<0.075	<del>&lt;0.075</del>	<3.8	35	75	110	<60
SS01b@1'(1)	9/13/2023	1.0	N/A	N/A	N/A	N/A	N/A	<4.8	<9.4	<47	<47	<60
SS01c	<del>9/13/2023</del>	1.5	<del>&lt;0.025</del>	<del>&lt;0.049</del>	<del>&lt;0.049</del>	<del>&lt;0.099</del>	<0.099	<4.9	59	88	147	<60
SS01E	10/24/2023	2.0	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	10	<49	10	<60
SS02	12/8/2022	0.5	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	29	<49	29	<60
<del>SS03</del>	<del>12/8/2022</del>	0.5	<del>&lt;0.025</del>	<del>&lt;0.049</del>	< <del>0.049</del>	<del>&lt;0.099</del>	<del>&lt;0.099</del>	<del>&lt;4.9</del>	390	<del>330</del>	720	<60
<del>SS03c</del>	<u>9/13/2023</u>	0.75	<del>&lt;0.024</del>	<0.048	<0.048	<del>&lt;0.096</del>	<0.096	<4.8	140	340	480	<60
SS03D	10/24/2023	1.25	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	250	510	760	<60
<del>\$\$0</del> 4	12/8/2022	0.5	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<71	<240	<240	<60
SS04c	9/13/2023	0.75	<0.025	<0.050	< 0.050	<0.099	<0.099	<5.0	26	<42	26	<60
SS05	12/8/2022	0.5	< <u>0.024</u>	<0.049	<0.049	<0.098	<0.098	<4.9	210	210	420	< <del>60</del>
SS05c	9/13/2023	0.75	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	15	<46	15	<60

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NMOCD Closure Criteria for Soils Impacted by a Release     10     NE     NE     S0     NE     NE     NE     100     600										600		
<del>SS06</del>	12/8/2022	0.5	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	2600	2400	<del>5,000</del>	76
SS06c	<del>9/13/2023</del>	0.75	<0.025	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.099</del>	<del>&lt;0.099</del>	<5.0	55	51	106	<60
SS06D	10/24/2023	1.25	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	27	58	85	<60
<del>SS07</del>	12/8/2022	0.5	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	400	390	<del>790</del>	<del>230</del>
SS07c	9/13/2023	0.75	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	32	56	88	130
SS08c	9/13/2023	0.75	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	22	<48	22	260
<del>SS09</del>	<del>12/8/2022</del>	0.5	<0.024	<0.049	<0.049	<0.098	<0.098	<del>&lt;4.9</del>	86	<del>150</del>	<del>236</del>	<del>62</del>
SS09c	9/13/2023	0.75	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	29	47	76	180
SS10c	9/13/2023	0.75	<0.024	<del>&lt;0.049</del>	<del>&lt;0.049</del>	<del>&lt;0.097</del>	<del>&lt;0.097</del>	≪4.9	71	110	181	<60
SS10D	10/24/2023	1.25	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	18	<48	18	<60
SS11c	9/13/2023	0.75	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	20	55	75	<60
<del>SS12</del>	<del>12/8/2022</del>	0.5	<0.025	<del>&lt;0.049</del>	<del>&lt;0.049</del>	<del>&lt;0.098</del>	<del>&lt;0.098</del>	<4.9	210	240	450	<del>&lt;59</del>
SS13D	10/24/2023	3.5	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.0	<45	<45	<60
SS14c	9/13/2023	0.75	<0.025	<0.049	<0.049	<0.098	<del>&lt;0.098</del>	<del>&lt;4.9</del>	580	690	<del>1,270</del>	<60
SS14D	10/24/2023	1.25	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.5	<47	<47	<60
<del>SS15</del>	12/8/2022	0.5	<0.025	<0.050	<del>&lt;0.50</del>	<del>&lt;0.10</del>	<0.10	<5.0	55	93	148	<60
<del>SS15c</del>	9/13/2023	0.75	<0.025	<0.050	<0.050	<del>&lt;0.10</del>	<0.10	<5.0	<del>96</del>	140	236	<60
SS15D	10/24/2023	0.75	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	37	160	197	<60
<del>SS16</del>	<del>12/8/2022</del>	0.5	<0.024	<del>&lt;0.049</del>	<del>&lt;0.049</del>	<del>&lt;0.097</del>	<del>&lt;0.097</del>	<4.9	<del>290</del>	310	600	<60
SS16c	9/13/2023	0.75	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	13	<49	13	<60
SS17	12/8/2022	0.5	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	17	<50	17	<59
<del>SS18</del>	<del>12/8/2022</del>	0.5	<0.025	<0.050	<0.050	<0.10	<0.10	<del>&lt;5.0</del>	<del>290</del>	<del>310</del>	600	<60
SS18c	9/13/2023	0.75	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	18	<47	18	<60
<u>SS19</u>	12/8/2022	0.5	< <u>0.025</u>	<0.050	<0.050	<0.099	<0.099	< <u>5.0</u>	64	83	147	<60
SS19D SS20c	10/24/2023 9/13/2023	1.0 0.75	<0.024 <0.024	<0.048 <0.048	<0.048 <0.048	<0.095 <0.097	<0.095 <0.097	<4.8 <4.8	13 15	<49 <47	13 15	<60 <60

#### Notes:

(1): Discrete delineation sample collected within composite area bgs: below ground surface BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes mg/kg: milligrams per kilogram NE: Not Established

NMOCD: New Mexico Oil Conservation Division

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil Range Organics

TPH: Total Petroleum Hydrocarbon

<: indicates result less than the stated laboratory reporting limit (RL)

Concentrations in **bold** and shaded exceed the NMOCD Table I Closure Criteria for Soils Impacted by a Release

Grey text indicates soil sample removed during excavation activities

# E N S O L U M

	TABLE 2         DELINEATION SOIL SAMPLE ANALYTICAL RESULTS         Seymour 6         Hilcorp Energy Company         San Juan County, New Mexico											
Sample Designation	Date	Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure C	Criteria for Soils I Release	mpacted by a	10	NE	NE	NE	50	NE	NE	NE	100	600
					Well Pad C	omposite Soil Sa	amples					
SS01d	9/13/2023	3.0	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	3,400	<490	3,400	<60
SS06A 1'	6/19/2023	1.0	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<48	<48	<60
SS06A 3'	6/19/2023	3.0	<0.024	<0.048	0.048	0.097	0.097	<4.8	<9.9	<49	<49	<60
SS08A 1'	6/19/2023	1.0	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	15	<46	15	<60
SS08A 3'	6/19/2023	3.0	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<8.8	<44	<44	<60
SS10A 1'	6/19/2023	1.0	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.9	<45	<45	<60
SS10A 3'	6/19/2023	3.0	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.3	<47	<47	<60
SS11A 1'	6/19/2023	1.0	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.0	<45	<45	<60
SS11A 3'	6/19/2023	3.0	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	16	<45	16	<60
SS13 A 1'	6/19/2023	1.0	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.7	<43	<43	<60
SS13A 3'	6/19/2023	3.0	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	12	<45	12	140
SS14A 1'	6/19/2023	1.0	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.3	<46	<46	<60
SS14A 3'	6/19/2023	3.0	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.5	<48	<48	<60
PH02@2.5'	10/24/2023	2.5	<0.025	<0.049	<0.049	<0.099	<0.099	9.0	1,400	770	2,179	<60
PH02@5'	10/24/2023	5.0	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	230	400	630	<60

#### Notes:

bgs: below ground surface BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes mg/kg: milligrams per kilogram NE: Not Established NMOCD: New Mexico Oil Conservation Division GRO: Gasoline Range Organics DRO: Diesel Range Organics

MRO: Motor Oil Range Organics

TPH: Total Petroleum Hydrocarbon

<: indicates result less than the stated laboratory reporting limit (RL)

Concentrations in **bold** and shaded exceed the NMOCD Table I Closure Criteria for Soils Impacted by a Release



# APPENDIX A

# Laboratory Analytical Reports

Released to Imaging: 2/26/2024 7:35:26 AM



June 30, 2023

Stuart Hyde HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Seymour 6

OrderNo.: 2306A11

Dear Stuart Hyde:

Hall Environmental Analysis Laboratory received 15 sample(s) on 6/20/2023 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 #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Seymour 6

Project:

**Analytical Report** Lab Order 2306A11

Date Reported: 6/30/2023

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SS01A 1' Collection Date: 6/19/2023 1:30:00 PM **Dessived Deter** 6/20/2022 7:20:00 AM

Lab ID: 2306A11-001	Matrix: SOIL	Received Date: 6/20/2023 7:20:00 AM						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH			
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/22/2023 10:19:15 PM			
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/22/2023 10:19:15 PM			
Surr: DNOP	122	69-147	%Rec	1	6/22/2023 10:19:15 PM			
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: KMN			
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/23/2023 6:37:00 PM			
Surr: BFB	105	15-244	%Rec	1	6/23/2023 6:37:00 PM			
EPA METHOD 8021B: VOLATILES					Analyst: KMN			
Benzene	ND	0.025	mg/Kg	1	6/26/2023 11:17:00 AM			
Toluene	ND	0.050	mg/Kg	1	6/26/2023 11:17:00 AM			
Ethylbenzene	ND	0.050	mg/Kg	1	6/26/2023 11:17:00 AM			
Xylenes, Total	ND	0.10	mg/Kg	1	6/26/2023 11:17:00 AM			
Surr: 4-Bromofluorobenzene	107	39.1-146	%Rec	1	6/26/2023 11:17:00 AM			
EPA METHOD 300.0: ANIONS					Analyst: CAS			
Chloride	ND	60	mg/Kg	20	6/23/2023 1:58:29 PM			

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

- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit

Page 1 of 21

Seymour 6

2306A11-002

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2306A11

Date Reported: 6/30/2023

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SS06A 1' Collection Date: 6/19/2023 8:40:00 AM Received Date: 6/20/2023 7:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/22/2023 10:30:19 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/22/2023 10:30:19 PM
Surr: DNOP	124	69-147	%Rec	1	6/22/2023 10:30:19 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/23/2023 6:59:00 PM
Surr: BFB	104	15-244	%Rec	1	6/23/2023 6:59:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	6/26/2023 11:40:00 AM
Toluene	ND	0.048	mg/Kg	1	6/26/2023 11:40:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	6/26/2023 11:40:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	6/26/2023 11:40:00 AM
Surr: 4-Bromofluorobenzene	99.5	39.1-146	%Rec	1	6/26/2023 11:40:00 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	6/23/2023 2:10:49 PM

Matrix: SOIL

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
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit
- RL

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Analytical Report
Lab Order 2306A11

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/30/2023
Client Sample ID: SS06A 3'

Project: Sey	vmour 6	Collection Date: 6/19/2023 8:45:00 AM								
Lab ID: 230	06A11-003	Matrix: SOIL	<b>Received Date:</b> 6/20/2023 7:20:00 AM							
Analyses		Result	RL Qu	ual Units	DF	Date Analyzed				
EPA METHO	D 8015M/D: DIESEL R	ANGE ORGANICS				Analyst: DGH				
Diesel Range	Organics (DRO)	ND	9.9	mg/Kg	1	6/22/2023 11:25:23 PM				
Motor Oil Rang	ge Organics (MRO)	ND	49	mg/Kg	1	6/22/2023 11:25:23 PM				
Surr: DNOF	0	114	69-147	%Rec	1	6/22/2023 11:25:23 PM				
EPA METHO	D 8015D: GASOLINE	RANGE				Analyst: <b>KMN</b>				
Gasoline Rang	ge Organics (GRO)	ND	4.8	mg/Kg	1	6/22/2023 1:50:00 PM				
Surr: BFB		103	15-244	%Rec	1	6/22/2023 1:50:00 PM				
EPA METHO	D 8021B: VOLATILES					Analyst: KMN				
Benzene		ND	0.024	mg/Kg	1	6/22/2023 1:50:00 PM				
Toluene		ND	0.048	mg/Kg	1	6/22/2023 1:50:00 PM				
Ethylbenzene		ND	0.048	mg/Kg	1	6/22/2023 1:50:00 PM				
Xylenes, Total		ND	0.097	mg/Kg	1	6/22/2023 1:50:00 PM				
Surr: 4-Bror	mofluorobenzene	94.4	39.1-146	%Rec	1	6/22/2023 1:50:00 PM				
EPA METHO	D 300.0: ANIONS					Analyst: CAS				
Chloride		ND	60	mg/Kg	20	6/23/2023 2:23:10 PM				

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

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.
 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 21

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Seymour 6

Project:

**Analytical Report** Lab Order 2306A11

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/30/2023 Client Sample ID: SS08A 1' Collection Date: 6/19/2023 8:52:00 AM

Lab ID: 2306A11-004	Matrix: SOIL	Received Date: 6/20/2023 7:20:00 AM						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: DGH			
Diesel Range Organics (DRO)	15	9.3	mg/Kg	1	6/22/2023 11:36:22 PM			
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/22/2023 11:36:22 PM			
Surr: DNOP	90.9	69-147	%Rec	1	6/22/2023 11:36:22 PM			
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: KMN			
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/22/2023 2:12:00 PM			
Surr: BFB	102	15-244	%Rec	1	6/22/2023 2:12:00 PM			
EPA METHOD 8021B: VOLATILES					Analyst: KMN			
Benzene	ND	0.025	mg/Kg	1	6/22/2023 2:12:00 PM			
Toluene	ND	0.050	mg/Kg	1	6/22/2023 2:12:00 PM			
Ethylbenzene	ND	0.050	mg/Kg	1	6/22/2023 2:12:00 PM			
Xylenes, Total	ND	0.099	mg/Kg	1	6/22/2023 2:12:00 PM			
Surr: 4-Bromofluorobenzene	95.5	39.1-146	%Rec	1	6/22/2023 2:12:00 PM			
EPA METHOD 300.0: ANIONS					Analyst: CAS			
Chloride	ND	60	mg/Kg	20	6/23/2023 3:00:13 PM			

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

Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 4 of 21

**Analytical Report** Lab Order 2306A11

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/30/2023 Client Sample ID: SS08A 3'

<b>Project:</b> Seymour 6		Collect	tion Date:	6/19/2	023 8:56:00 AM			
Lab ID: 2306A11-005	Matrix: SOIL	Received Date: 6/20/2023 7:20:00 AM						
Analyses	Result	RL Qua	l Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH			
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	6/22/2023 11:58:09 PM			
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	6/22/2023 11:58:09 PM			
Surr: DNOP	95.1	69-147	%Rec	1	6/22/2023 11:58:09 PM			
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: KMN			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/22/2023 2:34:00 PM			
Surr: BFB	108	15-244	%Rec	1	6/22/2023 2:34:00 PM			
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>			
Benzene	ND	0.025	mg/Kg	1	6/22/2023 2:34:00 PM			
Toluene	ND	0.049	mg/Kg	1	6/22/2023 2:34:00 PM			
Ethylbenzene	ND	0.049	mg/Kg	1	6/22/2023 2:34:00 PM			
Xylenes, Total	ND	0.098	mg/Kg	1	6/22/2023 2:34:00 PM			
Surr: 4-Bromofluorobenzene	99.3	39.1-146	%Rec	1	6/22/2023 2:34:00 PM			
EPA METHOD 300.0: ANIONS					Analyst: CAS			
Chloride	ND	60	mg/Kg	20	6/23/2023 3:12:34 PM			

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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

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Seymour 6

2306A11-006

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2306A11

Date Reported: 6/30/2023

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SS10A 1' Collection Date: 6/19/2023 12:30:00 PM Received Date: 6/20/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	6/23/2023 12:09:09 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	6/23/2023 12:09:09 AM
Surr: DNOP	113	69-147	%Rec	1	6/23/2023 12:09:09 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/22/2023 2:57:00 PM
Surr: BFB	111	15-244	%Rec	1	6/22/2023 2:57:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	6/22/2023 2:57:00 PM
Toluene	ND	0.048	mg/Kg	1	6/22/2023 2:57:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	6/22/2023 2:57:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	6/22/2023 2:57:00 PM
Surr: 4-Bromofluorobenzene	104	39.1-146	%Rec	1	6/22/2023 2:57:00 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	6/23/2023 3:24:55 PM

Matrix: SOIL

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 standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 6 of 21

Seymour 6

2306A11-007

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2306A11

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/30/2023 Client Sample ID: SS10A 3' Collection Date: 6/19/2023 12:35:00 PM

Received Date: 6/20/2023 7:20:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	6/23/2023 12:20:05 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/23/2023 12:20:05 AM
Surr: DNOP	126	69-147	%Rec	1	6/23/2023 12:20:05 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/22/2023 3:20:00 PM
Surr: BFB	117	15-244	%Rec	1	6/22/2023 3:20:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	6/22/2023 3:20:00 PM
Toluene	ND	0.049	mg/Kg	1	6/22/2023 3:20:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	6/22/2023 3:20:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	6/22/2023 3:20:00 PM
Surr: 4-Bromofluorobenzene	107	39.1-146	%Rec	1	6/22/2023 3:20:00 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	6/23/2023 3:37:15 PM

Matrix: SOIL

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

Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 7 of 21

Seymour 6

2306A11-008

**Project:** 

Lab ID:

Analytical Report Lab Order 2306A11

Date Reported: 6/30/2023

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SS11A 1' Collection Date: 6/19/2023 11:45:00 AM Received Date: 6/20/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH		
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	6/23/2023 12:31:02 AM		
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	6/23/2023 12:31:02 AM		
Surr: DNOP	98.3	69-147	%Rec	1	6/23/2023 12:31:02 AM		
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: KMN		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/22/2023 3:44:00 PM		
Surr: BFB	118	15-244	%Rec	1	6/22/2023 3:44:00 PM		
EPA METHOD 8021B: VOLATILES					Analyst: KMN		
Benzene	ND	0.025	mg/Kg	1	6/22/2023 3:44:00 PM		
Toluene	ND	0.050	mg/Kg	1	6/22/2023 3:44:00 PM		
Ethylbenzene	ND	0.050	mg/Kg	1	6/22/2023 3:44:00 PM		
Xylenes, Total	ND	0.10	mg/Kg	1	6/22/2023 3:44:00 PM		
Surr: 4-Bromofluorobenzene	109	39.1-146	%Rec	1	6/22/2023 3:44:00 PM		
EPA METHOD 300.0: ANIONS					Analyst: CAS		
Chloride	ND	60	mg/Kg	20	6/23/2023 4:14:17 PM		

Matrix: SOIL

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 21

Seymour 6

2306A11-009

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2306A11

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/30/2023 Client Sample ID: SS11A 3' Collection Date: 6/19/2023 11:49:00 AM

Received Date: 6/20/2023 7:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	16	9.1	mg/Kg	1	6/23/2023 12:41:55 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	6/23/2023 12:41:55 AM
Surr: DNOP	88.3	69-147	%Rec	1	6/23/2023 12:41:55 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/22/2023 4:31:00 PM
Surr: BFB	117	15-244	%Rec	1	6/22/2023 4:31:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	6/22/2023 4:31:00 PM
Toluene	ND	0.049	mg/Kg	1	6/22/2023 4:31:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	6/22/2023 4:31:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	6/22/2023 4:31:00 PM
Surr: 4-Bromofluorobenzene	105	39.1-146	%Rec	1	6/22/2023 4:31:00 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	6/23/2023 4:26:38 PM

Matrix: SOIL

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

Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 9 of 21

Seymour 6

**Project:** 

**Analytical Report** Lab Order 2306A11

Date Reported: 6/30/2023

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SS13A 1' Collection Date: 6/19/2023 12:20:00 PM Received Date: 6/20/2023 7:20:00 AM

Lab ID: 2306A11-010	Matrix: SOIL	Rece	eived Date:	6/20/2	023 7:20:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	6/23/2023 12:52:54 AM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	6/23/2023 12:52:54 AM
Surr: DNOP	89.8	69-147	%Rec	1	6/23/2023 12:52:54 AM
EPA METHOD 8015D: GASOLINE RANGI	E				Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/22/2023 4:55:00 PM
Surr: BFB	115	15-244	%Rec	1	6/22/2023 4:55:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	6/22/2023 4:55:00 PM
Toluene	ND	0.048	mg/Kg	1	6/22/2023 4:55:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	6/22/2023 4:55:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	6/22/2023 4:55:00 PM
Surr: 4-Bromofluorobenzene	106	39.1-146	%Rec	1	6/22/2023 4:55:00 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	6/23/2023 4:38:58 PM

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

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix
- D н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

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Seymour 6

**Project:** 

**Analytical Report** Lab Order 2306A11

Date Reported: 6/30/2023

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SS13A 3' Collection Date: 6/19/2023 12:22:00 PM Received Date: 6/20/2023 7.20.00 AM

Lab ID: 2306A11-011	Matrix: SOIL	SOIL         Received Date: 6/20/2023 7:20:00				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH	
Diesel Range Organics (DRO)	12	9.0	mg/Kg	1	6/23/2023 1:14:48 AM	
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	6/23/2023 1:14:48 AM	
Surr: DNOP	100	69-147	%Rec	1	6/23/2023 1:14:48 AM	
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: KMN	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/22/2023 5:18:00 PM	
Surr: BFB	110	15-244	%Rec	1	6/22/2023 5:18:00 PM	
EPA METHOD 8021B: VOLATILES					Analyst: KMN	
Benzene	ND	0.025	mg/Kg	1	6/22/2023 5:18:00 PM	
Toluene	ND	0.049	mg/Kg	1	6/22/2023 5:18:00 PM	
Ethylbenzene	ND	0.049	mg/Kg	1	6/22/2023 5:18:00 PM	
Xylenes, Total	ND	0.098	mg/Kg	1	6/22/2023 5:18:00 PM	
Surr: 4-Bromofluorobenzene	100	39.1-146	%Rec	1	6/22/2023 5:18:00 PM	
EPA METHOD 300.0: ANIONS					Analyst: CAS	
Chloride	140	60	mg/Kg	20	6/23/2023 4:51:19 PM	

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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Seymour 6

**Project:** 

Analytical Report Lab Order 2306A11

Date Reported: 6/30/2023

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SS14A 1' Collection Date: 6/19/2023 12:02:00 PM Received Date: 6/20/2023 7:20:00 AM

Lab ID: 2306A11-012	Matrix: SOIL	Matrix: SOIL         Received Date: 6/20/2023 7:2				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH	
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	6/23/2023 1:25:46 AM	
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/23/2023 1:25:46 AM	
Surr: DNOP	115	69-147	%Rec	1	6/23/2023 1:25:46 AM	
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: KMN	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/22/2023 5:41:00 PM	
Surr: BFB	104	15-244	%Rec	1	6/22/2023 5:41:00 PM	
EPA METHOD 8021B: VOLATILES					Analyst: KMN	
Benzene	ND	0.025	mg/Kg	1	6/22/2023 5:41:00 PM	
Toluene	ND	0.049	mg/Kg	1	6/22/2023 5:41:00 PM	
Ethylbenzene	ND	0.049	mg/Kg	1	6/22/2023 5:41:00 PM	
Xylenes, Total	ND	0.099	mg/Kg	1	6/22/2023 5:41:00 PM	
Surr: 4-Bromofluorobenzene	95.3	39.1-146	%Rec	1	6/22/2023 5:41:00 PM	
EPA METHOD 300.0: ANIONS					Analyst: CAS	
Chloride	ND	60	mg/Kg	20	6/23/2023 5:03:39 PM	

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit

RL Repo

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Seymour 6

**Project:** 

**Analytical Report** Lab Order 2306A11

Date Reported: 6/30/2023

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SS14A 3' Collection Date: 6/19/2023 12:06:00 PM Received Date: 6/20/2023 7:20:00 AM

Lab ID: 2306A11-013	Matrix: SOIL	Rece	eived Date:	6/20/2	023 7:20:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/23/2023 1:36:42 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/23/2023 1:36:42 AM
Surr: DNOP	95.5	69-147	%Rec	1	6/23/2023 1:36:42 AM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/22/2023 6:04:00 PM
Surr: BFB	102	15-244	%Rec	1	6/22/2023 6:04:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	6/22/2023 6:04:00 PM
Toluene	ND	0.049	mg/Kg	1	6/22/2023 6:04:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	6/22/2023 6:04:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	6/22/2023 6:04:00 PM
Surr: 4-Bromofluorobenzene	92.9	39.1-146	%Rec	1	6/22/2023 6:04:00 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	6/23/2023 5:16:00 PM

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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Analytical Report Lab Order 2306A11

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/30/2023
Client Sample ID: WS01A

Project:	Seymour 6		Collect	tion Date:	6/19/2	023 12:50:00 PM			
Lab ID:	2306A11-014	Matrix: SOIL	Recei	Received Date: 6/20/2023 7:20:00 AM					
Analyses		Result	RL Qua	l Units	DF	Date Analyzed			
EPA ME	THOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst: DGH			
Diesel R	ange Organics (DRO)	410	9.3	mg/Kg	1	6/23/2023 1:47:37 AM			
Motor Oi	I Range Organics (MRO)	240	46	mg/Kg	1	6/23/2023 1:47:37 AM			
Surr: I	DNOP	109	69-147	%Rec	1	6/23/2023 1:47:37 AM			
EPA ME	THOD 8015D: GASOLINE I	RANGE				Analyst: <b>KMN</b>			
Gasoline	Range Organics (GRO)	ND	5.0	mg/Kg	1	6/22/2023 6:26:00 PM			
Surr: I	BFB	97.2	15-244	%Rec	1	6/22/2023 6:26:00 PM			
EPA ME	THOD 8021B: VOLATILES					Analyst: KMN			
Benzene	•	ND	0.025	mg/Kg	1	6/22/2023 6:26:00 PM			
Toluene		ND	0.050	mg/Kg	1	6/22/2023 6:26:00 PM			
Ethylben	zene	ND	0.050	mg/Kg	1	6/22/2023 6:26:00 PM			
Xylenes,	Total	ND	0.10	mg/Kg	1	6/22/2023 6:26:00 PM			
Surr: 4	4-Bromofluorobenzene	89.0	39.1-146	%Rec	1	6/22/2023 6:26:00 PM			
EPA ME	THOD 300.0: ANIONS					Analyst: CAS			
Chloride		ND	60	mg/Kg	20	6/23/2023 5:28:21 PM			

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Seymour 6

2306A11-015

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2306A11

Date Reported: 6/30/2023

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS10A Collection Date: 6/19/2023 10:30:00 AM

Received Date: 6/20/2023 7:20:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	6/23/2023 2:09:29 AM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	6/23/2023 2:09:29 AM
Surr: DNOP	97.0	69-147	%Rec	1	6/23/2023 2:09:29 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/22/2023 6:49:00 PM
Surr: BFB	98.9	15-244	%Rec	1	6/22/2023 6:49:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	6/22/2023 6:49:00 PM
Toluene	ND	0.048	mg/Kg	1	6/22/2023 6:49:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	6/22/2023 6:49:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	6/22/2023 6:49:00 PM
Surr: 4-Bromofluorobenzene	90.2	39.1-146	%Rec	1	6/22/2023 6:49:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	6/24/2023 6:36:42 PM

Matrix: SOIL

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 standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 15 of 21

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	HILCORF	ENERGY								
Project:	Seymour 6	5								
Sample ID:	MB-75808	SampType: ml	olk	Tes	tCode: EF	PA Method	300.0: Anions			
Client ID:	PBS	Batch ID: 75	808	F	RunNo: <b>97</b>	7685				
Prep Date:	6/23/2023	Analysis Date: 6/	23/2023	S	SeqNo: 35	552695	Units: mg/Kg	9		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID:	LCS-75808	SampType: Ics	;	Tes	tCode: EF	PA Method	300.0: Anions			
Client ID:	LCSS	Batch ID: 75	808	F	RunNo: <b>97</b>	7685				
Prep Date:	6/23/2023	Analysis Date: 6/	23/2023	S	SeqNo: 35	552697	Units: mg/Kg	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	90.0	90	110			
Sample ID:	MB-75816	SampType: MI	BLK	Tes	tCode: EF	PA Method	300.0: Anions			
Client ID:	PBS	Batch ID: 75	816	F	RunNo: <b>97</b>	707				
Prep Date:	6/24/2023	Analysis Date: 6/	24/2023	S	SeqNo: 35	553436	Units: mg/Kg	9		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID:	LCS-75816	SampType: LC	S	Tes	tCode: EF	PA Method	300.0: Anions			
Client ID:	LCSS	Batch ID: 75	816	F	RunNo: <b>97</b>	707				
Prep Date:	6/24/2023	Analysis Date: 6/	24/2023	5	SeqNo: 35	553437	Units: mg/Kg	9		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	91.8	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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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30-Jun-23

WO#:

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

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WO#:	2306A11

30-Jun-23

Client: Project:	HILCORP		Y								
Project:	Seymour 6	)									
Sample ID:	2306A11-015AMS	SampT	уре: МS	6	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	WS10A	Batch	n ID: <b>75</b> 7	766	F	RunNo: <b>97</b>	639				
Prep Date:	6/21/2023	Analysis D	Date: 6/	23/2023	S	SeqNo: <b>35</b>	51888	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	33	9.0	44.88	0	74.5	54.2	135			
Surr: DNOP		4.0		4.488		88.1	69	147			
Sample ID:	2306A11-015AMSD	SampT	ype: MS	SD.	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	WS10A	Batch	n ID: <b>75</b> 7	766	F	RunNo: <b>97</b>	639				
Prep Date:	6/21/2023	Analysis D	Date: 6/	23/2023	S	SeqNo: 35	51889	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	35	9.8	49.21	0	71.6	54.2	135	5.18	29.2	
Surr: DNOP		4.6		4.921		92.6	69	147	0	0	
Sample ID:	LCS-75757	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	LCSS	Batch	n ID: 75	757	F	RunNo: <b>97</b>	639				
Prep Date:	6/21/2023	Analysis D	Date: 6/	22/2023	S	SeqNo: 35	51920	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	57	10	50.00	0	114	61.9	130			
Surr: DNOP		6.1		5.000		123	69	147			
Sample ID:	LCS-75766	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	LCSS	Batch	n ID: 75	766	F	RunNo: <b>97</b>	639				
Prep Date:	6/21/2023	Analysis D	Date: 6/	22/2023	S	SeqNo: 35	551921	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	39	10	50.00	0	78.5	61.9	130			
Surr: DNOP		5.3		5.000		105	69	147			
Sample ID:	MB-75757	SampT	уре: МЕ	BLK	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batch	n ID: <b>75</b> 7	757	F	RunNo: <b>97</b>	639				
Prep Date:	6/21/2023	Analysis D	Date: 6/	22/2023	S	SeqNo: 35	51923	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Or	rganics (DRO)	ND	10								
			50								
Motor Oil Range	e Organics (MRO)	ND	50								

#### **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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: HILCO Project: Seymou	RP ENERGY 1r 6		
Sample ID: MB-75766	SampType: MBLK	TestCode: EPA Method 8015M/D: Dies	el Range Organics
Client ID: PBS	Batch ID: 75766	RunNo: 97639	
Prep Date: 6/21/2023	Analysis Date: 6/22/2023	SeqNo: 3551924 Units: mg/Kg	I
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit HighLimit	%RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Motor Oil Range Organics (MRO)	ND 50		
Surr: DNOP	10 10.0	103 69 147	
Sample ID: LCS-75819	SampType: LCS	TestCode: EPA Method 8015M/D: Dies	el Range Organics
Client ID: LCSS	Batch ID: 75819	RunNo: 97703	
Prep Date: 6/26/2023	Analysis Date: 6/26/2023	SeqNo: 3553956 Units: %Rec	
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit HighLimit	%RPD RPDLimit Qual
Surr: DNOP	4.5 5.00	90.5 69 147	
Sample ID: MB-75819	SampType: MBLK	TestCode: EPA Method 8015M/D: Dies	el Range Organics
Client ID: PBS	Batch ID: 75819	RunNo: 97703	
Prep Date: 6/26/2023	Analysis Date: 6/26/2023	SeqNo: 3553958 Units: %Rec	
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit HighLimit	%RPD RPDLimit Qual
Surr: DNOP	8.8 10.0	88.4 69 147	

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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30-Jun-23

WO#:

Client: Project:	HILCORP Seymour 6		Y								
Sample ID:	lcs-75760	SampT	ype: LC	S	Tes	tCode: E	PA Method	8015D: Gasoli	ne Range		
Client ID:	LCSS	Batch	n ID: <b>75</b> 7	760	F	RunNo: 9	97645				
Prep Date:	6/21/2023	Analysis D	)ate: 6/	22/2023	S	SeqNo: 3	3550631	Units: mg/Kg	I		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Surr: BFB	e Organics (GRO)	23 2100	5.0	25.00 1000	0	92.4 213	70 15	130 244			
Sample ID:	mb-75760	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8015D: Gasoli	ne Range		
Client ID:	PBS	Batch	n ID: <b>75</b> 7	760	F	RunNo: 9	97645				
Prep Date:	6/21/2023	Analysis D	)ate: 6/	22/2023	S	SeqNo: 3	3550632	Units: mg/Kg	I		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Surr: BFB	e Organics (GRO)	ND 1000	5.0	1000		100	15	244			
Sample ID:	lcs-75744	SampT	Гуре: <b>LC</b>	S	Tes	tCode: E	PA Method	8015D: Gasoli	ne Range		
Client ID:	LCSS	Batch	n ID: 757	744	F	RunNo: 9	97695				
Prep Date:	6/20/2023	Analysis D	)ate: 6/	23/2023	Ş	SeqNo: 3	3553027	Units: mg/Kg	I		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Surr: BFB	e Organics (GRO)	23 2100	5.0	25.00 1000	0	92.4 210	70 15	130 244			
Sample ID:	mb-75744	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8015D: Gasoli	ne Range		
Client ID:	PBS	Batch	n ID: 757	744	F	RunNo: g	97695				
Prep Date:	6/20/2023	Analysis D	)ate: 6/	23/2023	S	SeqNo: 3	3553028	Units: mg/Kg	I		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Surr: BFB	e Organics (GRO)	ND 1000	5.0	1000		103	15	244			
Sample ID:	lcs-75811	SampT	ype: LC	S	Tes	tCode: E	PA Method	8015D: Gasoli	ne Range		
-	lcs-75811 LCSS		ype: <b>LC</b>			tCode: <b>E</b> RunNo: <b>9</b>		8015D: Gasoli	ne Range		
-			n ID: <b>758</b>	811	F		97706	8015D: Gasoli Units: %Rec	ne Range		
Client ID: Prep Date:	LCSS	Batch Analysis D	n ID: <b>75</b> 8 Date: <b>6/</b> 2	811 26/2023	F	RunNo: <b>g</b> SeqNo: 3	97706 3554080	Units: %Rec			Qual
Client ID:	LCSS	Batch	n ID: <b>758</b>	811 26/2023	F	RunNo: g	97706		ne Range %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte	LCSS 6/23/2023	Batch Analysis D Result 2100	n ID: <b>75</b> 8 Date: <b>6/</b> 2	811 26/2023 SPK value 1000	F SPK Ref Val	RunNo: 9 SeqNo: 3 %REC 207	97706 3554080 LowLimit 15	Units: <b>%Rec</b> HighLimit	%RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Surr: BFB Sample ID:	LCSS 6/23/2023	Batch Analysis D Result 2100 SampT	n ID: <b>758</b> Date: <b>6/</b> 2 PQL	811 26/2023 SPK value 1000 BLK	F SPK Ref Val Tes	RunNo: 9 SeqNo: 3 %REC 207	97706 8554080 LowLimit 15 PA Method	Units: <b>%Rec</b> HighLimit 244	%RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Surr: BFB Sample ID:	LCSS 6/23/2023 mb-75811	Batch Analysis D Result 2100 SampT	Date: 6/2 PQL	811 26/2023 SPK value 1000 3LK 811	F SPK Ref Val Tes F	RunNo: 9 SeqNo: 3 %REC 207	97706 8554080 LowLimit 15 PA Method 97706	Units: <b>%Rec</b> HighLimit 244	%RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Surr: BFB Sample ID: Client ID:	LCSS 6/23/2023 mb-75811 PBS	Batch Analysis D Result 2100 SampT Batch	Date: 6/2 PQL	811 26/2023 SPK value 1000 3LK 811 26/2023	F SPK Ref Val Tes F	RunNo: 9 SeqNo: 3 %REC 207 tCode: E RunNo: 9	97706 8554080 LowLimit 15 PA Method 97706	Units: %Rec HighLimit 244 8015D: Gasoli	%RPD	RPDLimit	Qual

**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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J

Р Sample pH Not In Range

RL Reporting Limit Page 19 of 21

2306A11

30-Jun-23

WO#:

Analyte detected below quantitation limits

Client: Project:	HILCORP Seymour 6		Y								
Sample ID:	-		Гуре: <b>LC</b>	<u> </u>	Tos	tCode: EE	A Mothod	8021B: Volati	los		
Client ID:	LCSS		h ID: 757			RunNo: 97		ouzib. voiati	165		
								lipito: ma///			
Prep Date:	6/21/2023	Analysis E				SeqNo: 35	50637	Units: mg/K	-		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.95	0.025	1.000	0	94.5	70	130			
Toluene		0.95	0.050	1.000	0	95.3	70	130			
Ethylbenzene		0.96	0.050	1.000	0	95.6 05.2	70 70	130			
Xylenes, Total		2.9	0.10	3.000	0	95.2	70	130			
Suff: 4-Broff	ofluorobenzene	0.94		1.000		94.1	39.1	146			
Sample ID:	mb-75760	SampT	Гуре: <b>МЕ</b>	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	PBS	Batcl	h ID: 757	760	F	RunNo: <b>97</b>	645				
Prep Date:	6/21/2023	Analysis E	Date: 6/2	22/2023	S	SeqNo: 35	50638	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-Brom	ofluorobenzene	0.94		1.000		94.0	39.1	146			
Sample ID:	lcs-75744	SampT	Гуре: <b>LC</b>	s	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	LCSS	Batcl	h ID: 757	744	F	RunNo: <b>97</b>	695				
Prep Date:	6/20/2023	Analysis E	Date: 6/2	23/2023	Ş	SeqNo: 35	53046	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.93	0.025	1.000	0	93.5	70	130			
Toluene		0.94	0.050	1.000	0	94.1	70	130			
Ethylbenzene		0.95	0.050	1.000	0	95.2	70	130			
Xylenes, Total		2.9	0.10	3.000	0	95.3	70	130			
Surr: 4-Brom	ofluorobenzene	0.96		1.000		95.9	39.1	146			
Sample ID:	mb-75744	SampT	Гуре: <b>МЕ</b>	BLK	Tes	tCode: EF	A Method	8021B: Volati	les		
Client ID:	PBS	Batcl	h ID: 757	744	F	RunNo: 97	695				
Prep Date:	6/20/2023	Analysis E	Date: 6/2	23/2023	Ş	SeqNo: 35	53047	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-Brom	ofluorobenzene	0.95		1.000		94.9	39.1	146			

\* 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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

WO#: 2306A11

30-Jun-23

	CORP ENERGY nour 6			
Sample ID: Ics-75811	SampType: LCS	TestCode: EPA Method	8021B: Volatiles	
Client ID: LCSS	Batch ID: 75811	RunNo: 97706		
Prep Date: 6/23/2023	Analysis Date: 6/26/2023	SeqNo: 3554125	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: 4-Bromofluorobenzene	0.93 1.000	93.0 39.1	146	
Sample ID: mb-75811	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles	
Client ID: PBS	Batch ID: 75811	RunNo: 97706		
Prep Date: 6/23/2023	Analysis Date: 6/26/2023	SeqNo: 3554126	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: 4-Bromofluorobenzene	0.93 1.000	92.9 39.1	146	

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 21 of 21

WO#: 2306A11 30-Jun-23

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albu TEL: 505-345-3975 Website: www.ha	4901 Hawkin. Iquerque, NM 83 FAX: 505-345-4	s NE 7109 <b>Sa</b> 4107	mple Log-In Check List
Client Name: HILCORP ENERGY	Nork Order Number:	2306A11		RcptNo: 1
Received By: Juan Rojas 6/2	0/2023 7:20:00 AM		Guaras	3
Completed By: Desiree Dominguez 6/2	0/2023 8:49:49 AM		TP>	
Reviewed By: MP Collo 2	3			
Chain of Custody			_	_
1. Is Chain of Custody complete?		Yes 🗌	No 🔽	Not Present
2. How was the sample delivered?		Courier		
Log In 3. Was an attempt made to cool the samples?		Yes 🗹	No 🗌	] NA 🗌
4. Were all samples received at a temperature of >	0° C to 6.0°C	Yes 🗹	No 🗌	] NA 🗌
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌	]
6. Sufficient sample volume for indicated test(s)?		Yes 🗹	No 🗌	l
7. Are samples (except VOA and ONG) properly pre	served?	Yes 🗹	No 🗌	
8. Was preservative added to bottles?		Yes 🗌	No 🗹	
9. Received at least 1 vial with headspace <1/4" for	AQ VOA?	Yes	No 🗌	
10. Were any sample containers received broken?		Yes □	No 🔽	
11. Does paperwork match bottle labels?		Yes 🔽	No 🗌	# of preserved bottles checked for pH: (<2/br >12 unless noted)
(Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Custo	odv2	Yes 🗹	No 🗌	Adjusted?
13. Is it clear what analyses were requested?	ouy:	Yes 🗹		1 Canada la
14. Were all holding times able to be met?		Yes 🗹	No 🗌	I = I = L = L = L = L = L = L = L = L =
(If no, notify customer for authorization.)				
<b>Special Handling (if applicable)</b> 15. Was client notified of all discrepancies with this of	order?	Yes 🗌	No 🗌	, ] NA 🗹
Person Notified:	Date:			-
By Whom:	Via:	eMail 🗌 F	Phone 🔲 Fa	ax 🔲 In Person
Regarding:				
Client Instructions:				
16. Additional remarks:				
Mailing address, phone number and Email	not provided on COC	C DAD 6/20/2	23	
17. <u>Cooler Information</u>			Olean d D	

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.7	Good	Not Present	Morty		

Received by OCD: 11/20/2023 10:01:36 AM

Page 40 of 121

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of-Custody Record	Turn-Around Time:	
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010.	Project Name:	www.hallenvironmental.com
-	Seymour 6	4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #:		ysis Requ
Fax#: Mkillound Alcorp.	courl Project Manager: Stuart Hyde	*OS : : : : : :
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If necessary, samples substitued to Hall Environmental may be su	ubcontracted to other accredited laboratories. This serves as notice of the	If nacessary, samples sharing 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.

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Chain_of_Custody Doord	Turn-Around Time:	
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2		www.hallenvironmental.com
Mailing Address:	Seymor 6	4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #:		Analysis Request
email or Fax#: M/w/w/wwh & hl corp. com	Project N	<sup>†</sup> OS ' S s, (ОЫ
AAVUC Package:     Devel 4 (Full Validation)     Devel 4 (Full Validation)	Shyde (2 BASOLUM. CON)	bO <sup>4†</sup> 02IW
	r: Zach M	и) 1082 14.1) 1827 102,
	H of Coolers: 1 No	VOV 103, 100 100 100 100 100 100 100 100 100 10
	Cooler Temp(Instuding CF): (0, 4-0. 7=0.4 (°C)	15D( setici y 83 hr, N (AO)
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6/14 15: R Relinquished by:	Received by: Via: Date Time	Remarks:
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories.		This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

2 Released to Imaging: 2726/2024 7:35:26 AM

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September 27, 2023

Mitch Killough HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Seymour 6

OrderNo.: 2309743

Dear Mitch Killough:

Hall Environmental Analysis Laboratory received 23 sample(s) on 9/14/2023 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 #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Seymour 6

2309743-001

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2309743

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/27/2023 Client Sample ID: SS01b

Collection Date: 9/13/2023 9:30:00 AM Received Date: 9/14/2023 6:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	35	9.9	mg/Kg	1	9/14/2023 12:25:43 PM
Motor Oil Range Organics (MRO)	75	49	mg/Kg	1	9/14/2023 12:25:43 PM
Surr: DNOP	106	69-147	%Rec	1	9/14/2023 12:25:43 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	9/14/2023 11:02:00 AM
Surr: BFB	99.4	15-244	%Rec	1	9/14/2023 11:02:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.019	mg/Kg	1	9/14/2023 11:02:00 AM
Toluene	ND	0.038	mg/Kg	1	9/14/2023 11:02:00 AM
Ethylbenzene	ND	0.038	mg/Kg	1	9/14/2023 11:02:00 AM
Xylenes, Total	ND	0.075	mg/Kg	1	9/14/2023 11:02:00 AM
Surr: 4-Bromofluorobenzene	86.6	39.1-146	%Rec	1	9/14/2023 11:02:00 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	9/14/2023 12:00:19 PM

Matrix: SOIL

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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

\*

Seymour 6

**Project:** 

**Analytical Report** Lab Order 2309743

Date Reported: 9/27/2023

Hall Environmental Analysis Laboratory, Inc	Hall Environmental	Analysis	Laboratory,	Inc.
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Client Sample ID: SS01b@1' Collection Date: 9/13/2023 9:40:00 AM Received Date: 9/14/2023 6:30:00 AM

Lab ID: 2309743-002	Matrix: SOIL	Rece	2023 6:30:00 AM		
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/25/2023 7:13:06 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/25/2023 7:13:06 PM
Surr: DNOP	127	69-147	%Rec	1	9/25/2023 7:13:06 PM
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/25/2023 5:41:00 PM
Surr: BFB	98.5	15-244	%Rec	1	9/25/2023 5:41:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	9/23/2023 6:05:54 AM

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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

\*

Seymour 6

**Project:** 

**Analytical Report** Lab Order 2309743

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/27/2023

Client Sample ID: SS01c Collection Date: 9/13/2023 1:37:00 PM Received Date: 9/14/2023 6:30:00 AM

Lab ID: 2309743-004	Matrix: SOIL	Rece	<b>Received Date:</b> 9/14/2023 6:30:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD		
Diesel Range Organics (DRO)	59	9.5	mg/Kg	1	9/18/2023 11:14:18 AM		
Motor Oil Range Organics (MRO)	88	47	mg/Kg	1	9/18/2023 11:14:18 AM		
Surr: DNOP	101	69-147	%Rec	1	9/18/2023 11:14:18 AM		
EPA METHOD 8015D: GASOLINE RANGI	E				Analyst: KMN		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/16/2023 3:43:00 AM		
Surr: BFB	98.3	15-244	%Rec	1	9/16/2023 3:43:00 AM		
EPA METHOD 8021B: VOLATILES					Analyst: KMN		
Benzene	ND	0.025	mg/Kg	1	9/16/2023 3:43:00 AM		
Toluene	ND	0.049	mg/Kg	1	9/16/2023 3:43:00 AM		
Ethylbenzene	ND	0.049	mg/Kg	1	9/16/2023 3:43:00 AM		
Xylenes, Total	ND	0.099	mg/Kg	1	9/16/2023 3:43:00 AM		
Surr: 4-Bromofluorobenzene	89.5	39.1-146	%Rec	1	9/16/2023 3:43:00 AM		
EPA METHOD 300.0: ANIONS					Analyst: KCB		
Chloride	ND	60	mg/Kg	20	9/20/2023 12:05:41 PM		

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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value J
- Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

\*

**EPA METHOD 300.0: ANIONS** 

Chloride

**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2309743

Date Reported: 9/27/2023

Analyst: KCB

9/20/2023 12:42:55 PM

CLIENT: HILCORP ENERGY		Clie	ent Sai	mple ID:	SS01d	
Project: Seymour 6	Collection Date: 9/13/2023 1:52:00 PM					
Lab ID: 2309743-005	Matrix: SOIL	ŀ	Receiv	ed Date:	9/14/2	023 6:30:00 AM
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS					Analyst: PRD
Diesel Range Organics (DRO)	3400	98		mg/Kg	10	9/18/2023 1:53:57 PM
Motor Oil Range Organics (MRO)	ND	490	D	mg/Kg	10	9/18/2023 1:53:57 PM
Surr: DNOP	0	69-147	S	%Rec	10	9/18/2023 1:53:57 PM
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/16/2023 4:04:00 AM
Surr: BFB	99.1	15-244		%Rec	1	9/16/2023 4:04:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	9/16/2023 4:04:00 AM
Toluene	ND	0.047		mg/Kg	1	9/16/2023 4:04:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	9/16/2023 4:04:00 AM
Xylenes, Total	ND	0.094		mg/Kg	1	9/16/2023 4:04:00 AM
Surr: 4-Bromofluorobenzene	89.5	39.1-146		%Rec	1	9/16/2023 4:04:00 AM

ND

60

mg/Kg

20

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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е J
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

\*

**Analytical Report** Lab Order 2309743

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/27/2023 Client Sample ID: SS03c

Project:	Seymour 6	<b>Collection Date:</b> 9/13/2023 3:47:00 PM				
Lab ID:	2309743-006	Matrix: SOIL	Rece	eived Date:	9/14/2	023 6:30:00 AM
Analyses		Result	RL Qu	ual Units	DF	Date Analyzed
EPA ME	THOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst: PRD
Diesel R	ange Organics (DRO)	140	9.4	mg/Kg	1	9/18/2023 2:04:48 PM
Motor Oi	I Range Organics (MRO)	340	47	mg/Kg	1	9/18/2023 2:04:48 PM
Surr: I	DNOP	105	69-147	%Rec	1	9/18/2023 2:04:48 PM
EPA ME	THOD 8015D: GASOLINE F	RANGE				Analyst: <b>KMN</b>
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	9/16/2023 4:26:00 AM
Surr: E	BFB	95.3	15-244	%Rec	1	9/16/2023 4:26:00 AM
EPA ME	THOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	9	ND	0.024	mg/Kg	1	9/16/2023 4:26:00 AM
Toluene		ND	0.048	mg/Kg	1	9/16/2023 4:26:00 AM
Ethylben	zene	ND	0.048	mg/Kg	1	9/16/2023 4:26:00 AM
Xylenes,	Total	ND	0.096	mg/Kg	1	9/16/2023 4:26:00 AM
Surr: 4	4-Bromofluorobenzene	88.5	39.1-146	%Rec	1	9/16/2023 4:26:00 AM
EPA ME	THOD 300.0: ANIONS					Analyst: KCB
Chloride		ND	60	mg/Kg	20	9/20/2023 12:55:19 PM

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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е J
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

\*

Seymour 6

2309743-007

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2309743

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/27/2023

Client Sample ID: SS04c Collection Date: 9/13/2023 2:00:00 PM Received Date: 9/14/2023 6:30:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	26	8.4	mg/Kg	1	9/18/2023 2:45:22 PM
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	9/18/2023 2:45:22 PM
Surr: DNOP	118	69-147	%Rec	1	9/18/2023 2:45:22 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/16/2023 4:48:00 AM
Surr: BFB	94.8	15-244	%Rec	1	9/16/2023 4:48:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	9/16/2023 4:48:00 AM
Toluene	ND	0.050	mg/Kg	1	9/16/2023 4:48:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	9/16/2023 4:48:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	9/16/2023 4:48:00 AM
Surr: 4-Bromofluorobenzene	87.6	39.1-146	%Rec	1	9/16/2023 4:48:00 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	9/20/2023 1:07:43 PM

Matrix: SOIL

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 standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

\*

Seymour 6

2309743-008

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2309743

Date Reported: 9/27/2023

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SS05c Collection Date: 9/13/2023 2:08:00 PM

Received Date: 9/14/2023 6:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	15	9.3	mg/Kg	1	9/15/2023 7:59:51 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/15/2023 7:59:51 PM
Surr: DNOP	82.4	69-147	%Rec	1	9/15/2023 7:59:51 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/16/2023 2:16:17 AM
Surr: BFB	92.2	15-244	%Rec	1	9/16/2023 2:16:17 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	9/16/2023 2:16:17 AM
Toluene	ND	0.048	mg/Kg	1	9/16/2023 2:16:17 AM
Ethylbenzene	ND	0.048	mg/Kg	1	9/16/2023 2:16:17 AM
Xylenes, Total	ND	0.096	mg/Kg	1	9/16/2023 2:16:17 AM
Surr: 4-Bromofluorobenzene	102	39.1-146	%Rec	1	9/16/2023 2:16:17 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	9/20/2023 1:20:08 PM

Matrix: SOIL

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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value J
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** Lab Order 2309743

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/27/2023 Client Sample ID: SS06c

**Project:** Seymour 6 Collection Date: 9/13/2023 2:15:00 PM Lab ID: 2309743-009 Matrix: SOIL Received Date: 9/14/2023 6:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD Diesel Range Organics (DRO) 55 9.9 9/15/2023 8:32:09 PM mg/Kg 1 Motor Oil Range Organics (MRO) 51 1 9/15/2023 8:32:09 PM 49 mg/Kg Surr: DNOP 69-147 96.4 %Rec 1 9/15/2023 8:32:09 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5.0 mg/Kg 1 9/16/2023 3:50:01 AM Surr: BFB 1 9/16/2023 3:50:01 AM 97.5 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.025 mg/Kg 1 9/16/2023 3:50:01 AM Toluene ND 0.050 mg/Kg 1 9/16/2023 3:50:01 AM Ethylbenzene 9/16/2023 3:50:01 AM ND 0.050 mg/Kg 1 Xylenes, Total ND 0.099 mg/Kg 1 9/16/2023 3:50:01 AM %Rec Surr: 4-Bromofluorobenzene 108 39.1-146 1 9/16/2023 3:50:01 AM **EPA METHOD 300.0: ANIONS** Analyst: KCB Chloride ND 9/20/2023 1:57:21 PM 60 mg/Kg 20

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

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit POL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value J Analyte detected below quantitation limits
- Р
- Sample pH Not In Range
- RL Reporting Limit

Seymour 6

Project:

**Analytical Report** Lab Order 2309743

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/27/2023

Client Sample ID: SS07c Collection Date: 9/13/2023 2:23:00 PM **Received Date:** 0/1//2023 6:30:00 AM

Lab ID: 2309743-010	Matrix: SOIL	Rece	<b>Received Date:</b> 9/14/2023 6:30:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: PRD		
Diesel Range Organics (DRO)	32	9.6	mg/Kg	1	9/15/2023 2:47:32 PM		
Motor Oil Range Organics (MRO)	56	48	mg/Kg	1	9/15/2023 2:47:32 PM		
Surr: DNOP	102	69-147	%Rec	1	9/15/2023 2:47:32 PM		
EPA METHOD 8015D: GASOLINE RANG	<b>E</b>				Analyst: JJP		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/16/2023 5:00:31 AM		
Surr: BFB	92.0	15-244	%Rec	1	9/16/2023 5:00:31 AM		
EPA METHOD 8021B: VOLATILES					Analyst: JJP		
Benzene	ND	0.024	mg/Kg	1	9/16/2023 5:00:31 AM		
Toluene	ND	0.048	mg/Kg	1	9/16/2023 5:00:31 AM		
Ethylbenzene	ND	0.048	mg/Kg	1	9/16/2023 5:00:31 AM		
Xylenes, Total	ND	0.096	mg/Kg	1	9/16/2023 5:00:31 AM		
Surr: 4-Bromofluorobenzene	102	39.1-146	%Rec	1	9/16/2023 5:00:31 AM		
EPA METHOD 300.0: ANIONS					Analyst: KCB		
Chloride	130	60	mg/Kg	20	9/20/2023 2:09:46 PM		

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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Seymour 6

Project:

**Analytical Report** Lab Order 2309743

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/27/2023

Client Sample ID: SS08c Collection Date: 9/13/2023 2:33:00 PM **Received Date:** 0/1//2023 6:30:00 AM

Lab ID: 2309743-011	Matrix: SOIL	Rece	023 6:30:00 AM		
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	22	9.5	mg/Kg	1	9/15/2023 8:53:38 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/15/2023 8:53:38 PM
Surr: DNOP	98.6	69-147	%Rec	1	9/15/2023 8:53:38 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/16/2023 5:23:53 AM
Surr: BFB	98.0	15-244	%Rec	1	9/16/2023 5:23:53 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	9/16/2023 5:23:53 AM
Toluene	ND	0.048	mg/Kg	1	9/16/2023 5:23:53 AM
Ethylbenzene	ND	0.048	mg/Kg	1	9/16/2023 5:23:53 AM
Xylenes, Total	ND	0.096	mg/Kg	1	9/16/2023 5:23:53 AM
Surr: 4-Bromofluorobenzene	108	39.1-146	%Rec	1	9/16/2023 5:23:53 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	260	60	mg/Kg	20	9/20/2023 2:22:11 PM

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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value J
- Analyte detected below quantitation limits Р
- Sample pH Not In Range
- RL Reporting Limit

\*

**Analytical Report** Lab Order 2309743

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/27/2023 Client Sample ID: SS09c Collection Date: 9/13/2023 2:38:00 PM

**Project:** Seymour 6 Lab ID: 2309743-012 Matrix: SOIL Received Date: 9/14/2023 6:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD Diesel Range Organics (DRO) 9.2 9/15/2023 9:04:27 PM 29 mg/Kg 1 Motor Oil Range Organics (MRO) 47 1 9/15/2023 9:04:27 PM 46 mg/Kg Surr: DNOP 99.1 69-147 %Rec 1 9/15/2023 9:04:27 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 9/16/2023 5:47:23 AM Surr: BFB 1 9/16/2023 5:47:23 AM 96.0 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.025 mg/Kg 1 9/16/2023 5:47:23 AM Toluene ND 0.049 mg/Kg 1 9/16/2023 5:47:23 AM Ethylbenzene 9/16/2023 5:47:23 AM ND 0.049 mg/Kg 1 Xylenes, Total ND 0.099 mg/Kg 1 9/16/2023 5:47:23 AM Surr: 4-Bromofluorobenzene 106 39.1-146 %Rec 1 9/16/2023 5:47:23 AM **EPA METHOD 300.0: ANIONS** Analyst: KCB Chloride 9/20/2023 2:59:25 PM 180 60 mg/Kg 20

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

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value J
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

**Analytical Report** Lab Order 2309743

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/27/2023 Client Sample ID: SS10c Collection Date: 0/13/2023 2:44:00 PM

<b>Project:</b> Seymour 6		Collec	tion Date:	9/13/2	023 2:44:00 PM	
Lab ID: 2309743-013	Matrix: SOIL	Received Date: 9/14/2023 6:30:00 AM				
Analyses	Result	RL Qua	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD	
Diesel Range Organics (DRO)	71	9.6	mg/Kg	1	9/15/2023 9:15:15 PM	
Motor Oil Range Organics (MRO)	110	48	mg/Kg	1	9/15/2023 9:15:15 PM	
Surr: DNOP	99.6	69-147	%Rec	1	9/15/2023 9:15:15 PM	
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: <b>JJP</b>	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/16/2023 6:10:54 AM	
Surr: BFB	94.8	15-244	%Rec	1	9/16/2023 6:10:54 AM	
EPA METHOD 8021B: VOLATILES					Analyst: <b>JJP</b>	
Benzene	ND	0.024	mg/Kg	1	9/16/2023 6:10:54 AM	
Toluene	ND	0.049	mg/Kg	1	9/16/2023 6:10:54 AM	
Ethylbenzene	ND	0.049	mg/Kg	1	9/16/2023 6:10:54 AM	
Xylenes, Total	ND	0.097	mg/Kg	1	9/16/2023 6:10:54 AM	
Surr: 4-Bromofluorobenzene	105	39.1-146	%Rec	1	9/16/2023 6:10:54 AM	
EPA METHOD 300.0: ANIONS					Analyst: KCB	
Chloride	ND	60	mg/Kg	20	9/20/2023 3:11:50 PM	

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

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix
- D н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

\*

Seymour 6

Project:

**Analytical Report** Lab Order 2309743

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/27/2023

Client Sample ID: SS11c Collection Date: 9/13/2023 2:59:00 PM Received Date: 9/14/2023 6:30:00 AM

Lab ID: 2309743-014	Matrix: SOIL	Rece	023 6:30:00 AM		
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	20	9.9	mg/Kg	1	9/15/2023 9:25:59 PM
Motor Oil Range Organics (MRO)	55	50	mg/Kg	1	9/15/2023 9:25:59 PM
Surr: DNOP	103	69-147	%Rec	1	9/15/2023 9:25:59 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/16/2023 6:34:16 AM
Surr: BFB	94.2	15-244	%Rec	1	9/16/2023 6:34:16 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	9/16/2023 6:34:16 AM
Toluene	ND	0.048	mg/Kg	1	9/16/2023 6:34:16 AM
Ethylbenzene	ND	0.048	mg/Kg	1	9/16/2023 6:34:16 AM
Xylenes, Total	ND	0.096	mg/Kg	1	9/16/2023 6:34:16 AM
Surr: 4-Bromofluorobenzene	103	39.1-146	%Rec	1	9/16/2023 6:34:16 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	9/20/2023 3:24:14 PM

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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value J
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

\*

**Analytical Report** Lab Order 2309743

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/27/2023 Client Sample ID: SS12c Collection Date: 9/13/2023 3:04:00 PM

**Project:** Seymour 6 Lab ID: 2309743-015 Matrix: SOIL Received Date: 9/14/2023 6:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD Diesel Range Organics (DRO) 9.5 9/15/2023 9:36:45 PM 14 mg/Kg 1 Motor Oil Range Organics (MRO) ND 1 9/15/2023 9:36:45 PM 48 mg/Kg Surr: DNOP 99.4 69-147 %Rec 1 9/15/2023 9:36:45 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 9/16/2023 6:57:51 AM Surr: BFB 9/16/2023 6:57:51 AM 96.0 15-244 %Rec 1 **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 mg/Kg 1 9/16/2023 6:57:51 AM Toluene ND 0.048 mg/Kg 1 9/16/2023 6:57:51 AM Ethylbenzene 9/16/2023 6:57:51 AM ND 0.048 mg/Kg 1 Xylenes, Total ND 0.096 mg/Kg 1 9/16/2023 6:57:51 AM Surr: 4-Bromofluorobenzene 106 39.1-146 %Rec 1 9/16/2023 6:57:51 AM **EPA METHOD 300.0: ANIONS** Analyst: KCB Chloride ND 9/20/2023 3:36:39 PM 60 mg/Kg 20

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

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit POL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

**Analytical Report** Lab Order 2309743

Date Reported: 9/27/2023

### Hall Environmental Analysis Laboratory, Inc.

J	• •			Du	ae Reported. 9/1/1015
CLIENT: HILCORP ENERGY Project: Seymour 6 Lab ID: 2309743-016	Matrix: SOIL	Collec		9/13/2	2023 3:43:00 PM 2023 6:30:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	330	9.8	mg/Kg	1	9/15/2023 9:47:28 PM
Motor Oil Range Organics (MRO)	410	49	mg/Kg	1	9/15/2023 9:47:28 PM
Surr: DNOP	103	69-147	%Rec	1	9/15/2023 9:47:28 PM
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/16/2023 7:21:18 AM
Surr: BFB	94.9	15-244	%Rec	1	9/16/2023 7:21:18 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	9/16/2023 7:21:18 AM
Toluene	ND	0.048	mg/Kg	1	9/16/2023 7:21:18 AM
Ethylbenzene	ND	0.048	mg/Kg	1	9/16/2023 7:21:18 AM
Xylenes, Total	ND	0.096	mg/Kg	1	9/16/2023 7:21:18 AM
Surr: 4-Bromofluorobenzene	106	39.1-146	%Rec	1	9/16/2023 7:21:18 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	9/20/2023 3:49:03 PM

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 standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е J
- Analyte detected below quantitation limits Р Sample pH Not In Range

RL Reporting Limit

Chloride

**Analytical Report** Lab Order 2309743

9/20/2023 4:26:17 PM

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY		Client S	Sample ID:	SS14c	2
Project: Seymour 6		Collec	ction Date:	9/13/2	2023 4:08:00 PM
Lab ID: 2309743-017	Matrix: SOIL	Rece	eived Date:	9/14/2	2023 6:30:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: PRE
Diesel Range Organics (DRO)	580	9.2	mg/Kg	1	9/15/2023 9:58:11 PM
Motor Oil Range Organics (MRO)	690	46	mg/Kg	1	9/15/2023 9:58:11 PM
Surr: DNOP	103	69-147	%Rec	1	9/15/2023 9:58:11 PM
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/16/2023 7:44:46 AM
Surr: BFB	96.0	15-244	%Rec	1	9/16/2023 7:44:46 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	9/16/2023 7:44:46 AM
Toluene	ND	0.049	mg/Kg	1	9/16/2023 7:44:46 AM
Ethylbenzene	ND	0.049	mg/Kg	1	9/16/2023 7:44:46 AM
Xylenes, Total	ND	0.098	mg/Kg	1	9/16/2023 7:44:46 AM
Surr: 4-Bromofluorobenzene	107	39.1-146	%Rec	1	9/16/2023 7:44:46 AM
EPA METHOD 300.0: ANIONS					Analyst: KCE

ND

60

mg/Kg

20

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 standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е J
- Analyte detected below quantitation limits Р
- Sample pH Not In Range RL Reporting Limit

Seymour 6

2309743-018

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2309743

Date Reported: 9/27/2023

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SS15c Collection Date: 9/13/2023 3:11:00 PM

Received Date: 9/14/2023 6:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	96	9.6	mg/Kg	1	9/15/2023 10:39:04 PM
Motor Oil Range Organics (MRO)	140	48	mg/Kg	1	9/15/2023 10:39:04 PM
Surr: DNOP	105	69-147	%Rec	1	9/15/2023 10:39:04 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/16/2023 8:08:17 AM
Surr: BFB	97.1	15-244	%Rec	1	9/16/2023 8:08:17 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	9/16/2023 8:08:17 AM
Toluene	ND	0.050	mg/Kg	1	9/16/2023 8:08:17 AM
Ethylbenzene	ND	0.050	mg/Kg	1	9/16/2023 8:08:17 AM
Xylenes, Total	ND	0.10	mg/Kg	1	9/16/2023 8:08:17 AM
Surr: 4-Bromofluorobenzene	107	39.1-146	%Rec	1	9/16/2023 8:08:17 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	9/20/2023 4:38:42 PM

Matrix: SOIL

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

- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

\*

**Analytical Report** Lab Order 2309743

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/27/2023 Client Sample ID: SS16c

**Project:** Seymour 6 Collection Date: 9/13/2023 3:19:00 PM Lab ID: 2309743-019 Matrix: SOIL Received Date: 9/14/2023 6:30:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: PRD Diesel Range Organics (DRO) 13 9.9 9/15/2023 10:49:49 PM mg/Kg 1 Motor Oil Range Organics (MRO) ND 1 9/15/2023 10:49:49 PM 49 mg/Kg Surr: DNOP 69-147 99.1 %Rec 1 9/15/2023 10:49:49 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5.0 mg/Kg 1 9/16/2023 9:18:30 AM Surr: BFB 98.5 1 9/16/2023 9:18:30 AM 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.025 mg/Kg 1 9/16/2023 9:18:30 AM Toluene ND 0.050 mg/Kg 1 9/16/2023 9:18:30 AM Ethylbenzene 9/16/2023 9:18:30 AM ND 0.050 mg/Kg 1 Xylenes, Total ND 0.10 mg/Kg 1 9/16/2023 9:18:30 AM Surr: 4-Bromofluorobenzene 110 39.1-146 %Rec 1 9/16/2023 9:18:30 AM **EPA METHOD 300.0: ANIONS** Analyst: KCB Chloride ND 9/20/2023 4:51:06 PM 60 mg/Kg 20

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

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

- E Above Quantitation Range/Estimated Value J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

**Analytical Report** Lab Order 2309743

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/27/2023 Client Sample ID: SS18c

<b>Project:</b> Seymour 6		Collec	ction Date:	9/13/2	023 3:24:00 PM		
Lab ID: 2309743-020	Matrix: SOIL	Rece	Received Date: 9/14/2023 6:30:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: PRD		
Diesel Range Organics (DRO)	18	9.4	mg/Kg	1	9/15/2023 11:00:34 PM		
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/15/2023 11:00:34 PM		
Surr: DNOP	104	69-147	%Rec	1	9/15/2023 11:00:34 PM		
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst: <b>JJP</b>		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/16/2023 9:41:58 AM		
Surr: BFB	97.9	15-244	%Rec	1	9/16/2023 9:41:58 AM		
EPA METHOD 8021B: VOLATILES					Analyst: <b>JJP</b>		
Benzene	ND	0.024	mg/Kg	1	9/16/2023 9:41:58 AM		
Toluene	ND	0.049	mg/Kg	1	9/16/2023 9:41:58 AM		
Ethylbenzene	ND	0.049	mg/Kg	1	9/16/2023 9:41:58 AM		
Xylenes, Total	ND	0.097	mg/Kg	1	9/16/2023 9:41:58 AM		
Surr: 4-Bromofluorobenzene	109	39.1-146	%Rec	1	9/16/2023 9:41:58 AM		
EPA METHOD 300.0: ANIONS					Analyst: KCB		
Chloride	ND	60	mg/Kg	20	9/20/2023 5:03:31 PM		

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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

\*

**Analytical Report** Lab Order 2309743

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/27/2023 Client Sample ID: SS19c

<b>CLIENT:</b> HILCORP ENERGY		Client S	Sample ID:	SS19c	
<b>Project:</b> Seymour 6		Collec	ction Date:	9/13/2	023 3:30:00 PM
Lab ID: 2309743-021	Matrix: SOIL	Rece	023 6:30:00 AM		
Analyses	Result	RL Qual Units		DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	30	9.4	mg/Kg	1	9/15/2023 11:11:21 PM
Motor Oil Range Organics (MRO)	82	47	mg/Kg	1	9/15/2023 11:11:21 PM
Surr: DNOP	104	69-147	%Rec	1	9/15/2023 11:11:21 PM
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/16/2023 10:05:37 AM
Surr: BFB	97.4	15-244	%Rec	1	9/16/2023 10:05:37 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	9/16/2023 10:05:37 AM
Toluene	ND	0.048	mg/Kg	1	9/16/2023 10:05:37 AM
Ethylbenzene	ND	0.048	mg/Kg	1	9/16/2023 10:05:37 AM
Xylenes, Total	ND	0.096	mg/Kg	1	9/16/2023 10:05:37 AM
Surr: 4-Bromofluorobenzene	107	39.1-146	%Rec	1	9/16/2023 10:05:37 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	9/20/2023 5:15:55 PM

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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е J
- Analyte detected below quantitation limits

- Р Sample pH Not In Range
- RL Reporting Limit

\*

**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2309743

Date Reported: 9/27/2023

9/20/2023 5:28:19 PM

CLIENT: HILCORP ENERGY		Client S	ample ID:	SS20c	;				
Project: Seymour 6		Collection Date: 9/13/2023 3:34:00 PM							
Lab ID: 2309743-022	Matrix: SOIL	Matrix: SOIL         Received Date: 9/14/2023 6:30:00 //							
Analyses	Result	RL Qu	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: PRD				
Diesel Range Organics (DRO)	15	9.5	mg/Kg	1	9/15/2023 11:22:07 PM				
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/15/2023 11:22:07 PM				
Surr: DNOP	106	69-147	%Rec	1	9/15/2023 11:22:07 PM				
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: JJP				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/16/2023 10:29:13 AM				
Surr: BFB	97.9	15-244	%Rec	1	9/16/2023 10:29:13 AM				
EPA METHOD 8021B: VOLATILES					Analyst: <b>JJP</b>				
Benzene	ND	0.024	mg/Kg	1	9/16/2023 10:29:13 AM				
Toluene	ND	0.048	mg/Kg	1	9/16/2023 10:29:13 AM				
Ethylbenzene	ND	0.048	mg/Kg	1	9/16/2023 10:29:13 AM				
Xylenes, Total	ND	0.097	mg/Kg	1	9/16/2023 10:29:13 AM				
Surr: 4-Bromofluorobenzene	107	39.1-146	%Rec	1	9/16/2023 10:29:13 AM				
EPA METHOD 300.0: ANIONS					Analyst: KCB				

ND

60

mg/Kg

20

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

**Qualifiers:** 

Chloride

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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е J
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

\*

**Analytical Report** Lab Order 2309743

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/27/2023 Client Sample ID: WS01c Callesting Date: 0/12/2022 2.52.00 DM

<b>Project:</b> Seymour 6			Collect	ion Date:	9/13/2	023 2:52:00 PM			
Lab ID: 2309743-02	3 Matrix:	SOIL	Received Date: 9/14/2023 6:30:00 AM						
Analyses	]	Result	RL Qual	Units	DF	Date Analyzed			
EPA METHOD 8015M	/D: DIESEL RANGE ORGANI	CS				Analyst: PRD			
Diesel Range Organics (	(DRO)	85	9.4	mg/Kg	1	9/15/2023 11:32:52 PM			
Motor Oil Range Organio	cs (MRO)	110	47	mg/Kg	1	9/15/2023 11:32:52 PM			
Surr: DNOP		106	69-147	%Rec	1	9/15/2023 11:32:52 PM			
EPA METHOD 8015D	: GASOLINE RANGE					Analyst: <b>JJP</b>			
Gasoline Range Organic	cs (GRO)	ND	4.8	mg/Kg	1	9/16/2023 10:52:50 AM			
Surr: BFB		94.5	15-244	%Rec	1	9/16/2023 10:52:50 AM			
EPA METHOD 8021B	: VOLATILES					Analyst: JJP			
Benzene		ND	0.024	mg/Kg	1	9/16/2023 10:52:50 AM			
Toluene		ND	0.048	mg/Kg	1	9/16/2023 10:52:50 AM			
Ethylbenzene		ND	0.048	mg/Kg	1	9/16/2023 10:52:50 AM			
Xylenes, Total		ND	0.097	mg/Kg	1	9/16/2023 10:52:50 AM			
Surr: 4-Bromofluorobe	enzene	105	39.1-146	%Rec	1	9/16/2023 10:52:50 AM			
EPA METHOD 300.0:	ANIONS					Analyst: RBC			
Chloride		ND	60	mg/Kg	20	9/20/2023 2:59:31 PM			

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 standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

\*

Client:		PENERGY									
Project:	Seymour (	5									
Sample ID:	MB-77520	SampTyp	e: <b>mb</b>	lk	Tes	tCode: El	PA Method	300.0: Anions	\$		
Client ID:	PBS	Batch II	D: 775	20	F	RunNo: <b>9</b> 9	9702				
Prep Date:	9/14/2023	Analysis Date	e: <b>9/1</b>	4/2023	S	SeqNo: 36	644918	Units: mg/K	g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-77520	SampTyp	e: Ics		Tes	tCode: EF	PA Method	300.0: Anions	5		
Client ID:	LCSS	Batch II	D: 775	20	F	RunNo: <b>9</b> 9	9702				
Prep Date:	9/14/2023	Analysis Date	e: <b>9/1</b>	4/2023	S	SeqNo: 36	644919	Units: mg/K	g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	91.9	90	110			
Sample ID:	MB-77642	SampTyp	e: MB	LK	Tes	tCode: EF	PA Method	300.0: Anions	5		
Client ID:	PBS	Batch II	D: 776	42	F	RunNo: <b>9</b> 9	9854				
Prep Date:	9/20/2023	Analysis Date	e: <b>9/2</b>	20/2023	Ş	SeqNo: 36	651989	Units: mg/K	g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-77642	SampTyp	e: LCS	S	Tes	tCode: E	PA Method	300.0: Anions	5		
Client ID:	LCSS	Batch II	D: 776	42	F	RunNo: <b>9</b> 9	9854				
Prep Date:	9/20/2023	Analysis Date	e: <b>9/2</b>	20/2023	S	SeqNo: 36	6 <b>51990</b>	Units: mg/K	g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	91.3	90	110			
Sample ID:	MB-77635	SampTyp	e: <b>mb</b>	lk	Tes	tCode: E	PA Method	300.0: Anions	5		
Client ID:	PBS	Batch II	D: 776	35	F	RunNo: <b>9</b> 9	9855				
Prep Date:	9/20/2023	Analysis Date	e: 9/2	20/2023	S	SeqNo: 36	652477	Units: mg/K	g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-77635	SampTyp	e: Ics		Tes	tCode: El	PA Method	300.0: Anions	3		
Client ID:	LCSS	Batch II	D: 776	35	F	RunNo: <b>9</b> 9	9855				
Prep Date:	9/20/2023	Analysis Date	e: <b>9/2</b>	20/2023	5	SeqNo: 36	652478	Units: mg/K	g		
Analyte		Result I	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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Released to Imaging: 2/26/2024 7:35:26 AM

2309743

27-Sep-23

WO#:

Client: Project:	HILC	ORP ENERGY Dur 6								
Sample ID:	MB-77706	SampType: n	ıblk	Tes	tCode: EPA N	lethod	300.0: Anions	5		
Client ID:	PBS	Batch ID: 7	7706	F	RunNo: <b>99939</b>	)				
Prep Date:	9/22/2023	Analysis Date:	9/23/2023	S	SeqNo: <b>36550</b>	)35	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC Lo	wLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5	5							
Sample ID:	LCS-77706	SampType: I	s	Tes	tCode: EPA N	lethod	300.0: Anions	6		
Client ID:	LCSS	Batch ID: 7	7706	F	RunNo: <b>99939</b>	)				
Prep Date:	9/22/2023	Analysis Date:	9/23/2023	S	SeqNo: <b>36550</b>	36	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC Lo	wLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	5 15.00	0	92.6	90	110			

#### Qualifiers:

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- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit
- **Released to Imaging: 2/26/2024 7:35:26 AM**

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- WO#: 2309743 27-Sep-23

Client:	HILCORF	' ENERG	Y								
Project:	Seymour 6	5									
Sample ID: MB			Туре: МВ					8015M/D: Die	sel Range	Organics	
Client ID: PB:	5	Batch	h ID: 775	516	F	RunNo: <b>9</b>	9700				
Prep Date: 9/	14/2023	Analysis D	Date: 9/*	14/2023		SeqNo: 3	642929	Units: mg/K	íg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organ	ics (DRO)	ND	10								
Motor Oil Range Org	ganics (MRO)	ND	50								
Surr: DNOP		8.6		10.00		86.3	69	147			
Sample ID: LC	S-77516	SampT	Type: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LC:	SS	Batch	h ID: 775	516	F	RunNo: 9	9700				
Prep Date: 9/	14/2023	Analysis D	Date: <b>9/</b> *	14/2023	5	SeqNo: 3	642930	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organ	ics (DRO)	47	10	50.00	0	93.9	61.9	130			
Surr: DNOP		4.0		5.000		79.3	69	147			
Sample ID: 230	9743-001AMS	SampT	Туре: <b>МЅ</b>	;	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	Organics	
Client ID: SS	)1b	Batch	h ID: 775	516	F	RunNo: 9	9700				
Prep Date: 9/	14/2023	Analysis D	Date: <b>9/</b> *	14/2023	S	SeqNo: 3	642932	Units: <b>mg/K</b>	íg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organ	ics (DRO)	94	9.0	45.21	34.63	132	54.2	135			
Surr: DNOP		4.7		4.521		105	69	147			
Sample ID: 230	9743-001AMSD	SampT	Туре: <b>МЅ</b>	D	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: SS	)1b	Batch	h ID: 775	516	F	RunNo: 9	9700				
Prep Date: 9/	14/2023	Analysis D	Date: <b>9/</b> *	14/2023	S	SeqNo: 3	642933	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organ	ics (DRO)	87	9.0	44.76	34.63	117	54.2	135	7.92	29.2	
Surr: DNOP		4.8		4.476		108	69	147	0	0	
Sample ID: LC:	S-77533	SampT	Type: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	Organics	
Client ID: LC	SS	Batch	h ID: 775	533	F	RunNo: <b>9</b>	9724		_		
Prep Date: 9/	15/2023	Analysis D	Date: <b>9/</b> '	15/2023	S	SeqNo: 3	644512	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organ	ics (DRO)	49	10	50.00	0	97.2	61.9	130			
Surr: DNOP		4.8		5.000		95.9	69	147			

#### Qualifiers:

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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

5 % Recovery outside of standard limits. If undifined results may be estimated

WO#: 2309743 27-Sep-23

# **QC SUMMARY REPORT** Hall

	WO#:	2309743
ll Environmental Analysis Laboratory, Inc.		27-Sep-23

	HILCORP	PENERG	Y								
Project:	Seymour 6	5									
Sample ID: N	MB-77533	SampT	уре: МВ	LK	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics	
	PBS		n ID: 775			RunNo: <b>9</b> 9			J. J.	- <b>5</b> -	
Prep Date:	9/15/2023	Analysis D	)ate: <b>9/</b> *	5/2023		SeqNo: 36		Units: mg/K	a		
Analyte		Result	PQL		SPK Ref Val	•	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Org	ganics (DRO)	ND	10	Si it value	SI K Kei vai	/iiiii	LOWLINII	riigneimit	70111 D		Quai
Motor Oil Range		ND	50								
Surr: DNOP		10		10.00		103	69	147			
Sample ID: N	MB-77529	SampT	уре: МВ	LK	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics	
Client ID: P	PBS	Batch	n ID: 775	29	F	RunNo: <b>9</b> 9	9724				
Prep Date:	9/14/2023	Analysis D	)ate: <b>9/</b> *	15/2023	S	SeqNo: 36	644759	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Org	ganics (DRO)	ND	10								
Motor Oil Range	Organics (MRO)	ND	50								
Surr: DNOP		12		10.00		119	69	147			
Sample ID: 1	_CS-77529	SampT	ype: LC	S	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics	
									•	-	
•	LCSS	Batch	n ID: 775	29	F	RunNo: <b>9</b> 9	9724		U	-	
Client ID: L	_CSS 9/14/2023	Batch Analysis D				RunNo: <b>99</b> SeqNo: <b>36</b>		Units: <b>mg/K</b>	•	-	
Client ID: L					S				•	RPDLimit	Qual
Client ID: L Prep Date: Analyte	9/14/2023	Analysis D	)ate: <b>9/</b> *	15/2023	S	SeqNo: <b>36</b>	645014	Units: <b>mg/K</b>	g	RPDLimit	Qual
Client ID: L Prep Date: Analyte	9/14/2023	Analysis D Result	0ate: <b>9/</b> * PQL	I <b>5/2023</b> SPK value	SPK Ref Val	SeqNo: <b>36</b> %REC	545014 LowLimit	Units: <b>mg/K</b> HighLimit	g	RPDLimit	Qual
Client ID: L Prep Date: Analyte Diesel Range Ord Surr: DNOP	9/14/2023	Analysis D Result 47 4.9	0ate: <b>9/</b> * PQL	<b>SPK value</b> 50.00 5.000	SPK Ref Val 0	SeqNo: 36 %REC 93.1 97.5	645014 LowLimit 61.9 69	Units: <b>mg/K</b> HighLimit 130	g %RPD		Qual
Client ID: L Prep Date: Analyte Diesel Range Org Surr: DNOP Sample ID: 2	9/14/2023 ganics (DRO)	Analysis D Result 47 4.9 SampT	Date: <b>9/</b> PQL 10	SPK value 50.00 5.000	SPK Ref Val 0 Tes	SeqNo: 36 %REC 93.1 97.5	545014 LowLimit 61.9 69 PA Method	Units: <b>mg/K</b> HighLimit 130 147	g %RPD		Qual
Client ID: L Prep Date: Analyte Diesel Range Org Surr: DNOP Sample ID: 2 Client ID: S	9/14/2023 ganics (DRO) 2309743-008AMS	Analysis D Result 47 4.9 SampT	Date: 9/ PQL 10	SPK value 50.00 5.000	SPK Ref Val 0 Tes F	SeqNo: 36 %REC 93.1 97.5 tCode: EF	645014 LowLimit 61.9 69 PA Method 0724	Units: <b>mg/K</b> HighLimit 130 147	g %RPD sel Range		Qual
Client ID: L Prep Date: Analyte Diesel Range Org Surr: DNOP Sample ID: 2 Client ID: 5	9/14/2023 ganics (DRO) 2309743-008AMS SS05c	Analysis D Result 47 4.9 SampT Batch	Date: 9/ PQL 10	SPK value 50.00 5.000	SPK Ref Val 0 Tes F	SeqNo: 36 %REC 93.1 97.5 tCode: EF	645014 LowLimit 61.9 69 PA Method 0724	Units: mg/K HighLimit 130 147 8015M/D: Die	g %RPD sel Range		Qual
Client ID: L Prep Date: Analyte Diesel Range Orc Surr: DNOP Sample ID: 2 Client ID: S Prep Date: Analyte	9/14/2023 ganics (DRO) 2309743-008AMS SS05c 9/15/2023	Analysis D Result 47 4.9 SampT Batch Analysis D	Date: 9/* PQL 10 Type: MS Date: 9/*	15/2023 SPK value 50.00 5.000	SPK Ref Val 0 Tes F	SeqNo: 36 %REC 93.1 97.5 tCode: EF RunNo: 99 SeqNo: 36	645014 LowLimit 61.9 69 PA Method 0724 646352	Units: mg/K HighLimit 130 147 8015M/D: Die Units: mg/K	g %RPD sel Range	Organics	
Client ID: L Prep Date: Analyte Diesel Range Orc Surr: DNOP Sample ID: 2 Client ID: S Prep Date: Analyte	9/14/2023 ganics (DRO) 2309743-008AMS SS05c 9/15/2023	Analysis D Result 47 4.9 SampT Batch Analysis D Result	Date: 9/* PQL 10 Type: MS n ID: 775 Date: 9/* PQL	IS/2023 SPK value 50.00 5.000 333 IS/2023 SPK value	SPK Ref Val 0 Tes F SPK Ref Val	SeqNo: 36 %REC 93.1 97.5 tCode: EF RunNo: 99 SeqNo: 36 %REC	645014 LowLimit 61.9 69 PA Method 0724 646352 LowLimit	Units: mg/K HighLimit 130 147 8015M/D: Die Units: mg/K HighLimit	g %RPD sel Range	Organics	
Client ID: L Prep Date: Analyte Diesel Range Org Surr: DNOP Sample ID: 2 Client ID: S Prep Date: Analyte Diesel Range Org Surr: DNOP	9/14/2023 ganics (DRO) 2309743-008AMS SS05c 9/15/2023	Analysis D Result 47 4.9 SampT Batch Analysis D Result 56 4.4	Date: 9/* PQL 10 Type: MS n ID: 775 Date: 9/* PQL	IS/2023 SPK value 50.00 5.000 333 IS/2023 SPK value 49.80 4.980	SPK Ref Val 0 Tes F SPK Ref Val 15.13	SeqNo: 36 %REC 93.1 97.5 tCode: EF RunNo: 99 SeqNo: 36 %REC 82.2 89.2	645014 LowLimit 61.9 69 PA Method 6724 646352 LowLimit 54.2 69	Units: mg/K HighLimit 130 147 8015M/D: Die Units: mg/K HighLimit 135	g %RPD sel Range %RPD	Organics RPDLimit	
Client ID: L Prep Date: Analyte Diesel Range Org Surr: DNOP Sample ID: 2 Client ID: S Prep Date: Analyte Diesel Range Org Surr: DNOP	9/14/2023 ganics (DRO) 2309743-008AMS SS05c 9/15/2023 ganics (DRO)	Analysis D Result 47 4.9 SampT Batch Analysis D Result 56 4.4 SampT	Date: 9/ PQL 10 Type: MS Date: 9/ PQL 10	IS/2023 SPK value 50.00 5.000 333 IS/2023 SPK value 49.80 4.980 D	SPK Ref Val 0 Tes 5 SPK Ref Val 15.13 Tes	SeqNo: 36 %REC 93.1 97.5 tCode: EF RunNo: 99 SeqNo: 36 %REC 82.2 89.2	645014 LowLimit 61.9 69 PA Method 646352 LowLimit 54.2 69 PA Method	Units: <b>mg/K</b> HighLimit 130 147 <b>8015M/D: Die</b> Units: <b>mg/K</b> HighLimit 135 147	g %RPD sel Range %RPD	Organics RPDLimit	
Client ID: L Prep Date: Analyte Diesel Range Org Surr: DNOP Sample ID: 2 Client ID: S Prep Date: Analyte Diesel Range Org Surr: DNOP Sample ID: 2 Client ID: S	9/14/2023 ganics (DRO) 2309743-008AMS 5S05c 9/15/2023 ganics (DRO) 2309743-008AMSD	Analysis D Result 47 4.9 SampT Batch Analysis D Result 56 4.4 SampT	Date: 9/1 PQL 10 Type: MS Date: 9/1 PQL 10 Type: MS Date: 775	IS/2023 SPK value 50.00 5.000 333 SPK value 49.80 4.980 D 333	SPK Ref Val 0 Tes 5PK Ref Val 15.13 Tes F	SeqNo: 36 %REC 93.1 97.5 tCode: EF RunNo: 99 SeqNo: 36 %REC 82.2 89.2 tCode: EF	645014 LowLimit 61.9 69 PA Method 646352 LowLimit 54.2 69 PA Method 724	Units: <b>mg/K</b> HighLimit 130 147 <b>8015M/D: Die</b> Units: <b>mg/K</b> HighLimit 135 147	g %RPD sel Range %RPD sel Range	Organics RPDLimit	
Client ID: L Prep Date: Analyte Diesel Range Org Surr: DNOP Sample ID: 2 Client ID: S Prep Date: Analyte Diesel Range Org Surr: DNOP Sample ID: 2 Client ID: S	9/14/2023 ganics (DRO) 2309743-008AMS SS05c 9/15/2023 ganics (DRO) 2309743-008AMSD SS05c	Analysis D Result 47 4.9 SampT Batch Analysis D Result 56 4.4 SampT Batch	Date: 9/1 PQL 10 Type: MS Date: 9/1 PQL 10 Type: MS Date: 775	IS/2023 SPK value 50.00 5.000 333 SPK value 49.80 4.980 D 333	SPK Ref Val 0 Tes SPK Ref Val 15.13 Tes F	SeqNo: 36 %REC 93.1 97.5 tCode: EF RunNo: 99 SeqNo: 36 %REC 82.2 89.2 tCode: EF	645014 LowLimit 61.9 69 PA Method 646352 LowLimit 54.2 69 PA Method 724	Units: mg/K HighLimit 130 147 8015M/D: Die Units: mg/K HighLimit 135 147 8015M/D: Die	g %RPD sel Range %RPD sel Range	Organics RPDLimit	
Client ID: L Prep Date: Analyte Diesel Range Org Surr: DNOP Sample ID: 2 Client ID: S Prep Date: Analyte Diesel Range Org Surr: DNOP Sample ID: 2 Client ID: S Prep Date:	9/14/2023 ganics (DRO) 2309743-008AMS SS05c 9/15/2023 ganics (DRO) 2309743-008AMSD SS05c 9/15/2023	Analysis D Result 47 4.9 SampT Batch Analysis D 56 4.4 SampT Batch Analysis D	PQL           10           Type:           MS           Date:           9/*           PQL           10           Type:           MS           PQL           10           PQL           10           PQL           10           PQL           10           PQL           10           PQL           10	I5/2023 SPK value 50.00 5.000 333 I5/2023 SPK value 49.80 4.980 0 333 I5/2023	SPK Ref Val 0 Tes SPK Ref Val 15.13 Tes F	SeqNo: 36 %REC 93.1 97.5 tCode: EF RunNo: 99 SeqNo: 36 KREC 82.2 89.2 tCode: EF RunNo: 99 SeqNo: 36	645014 LowLimit 61.9 69 PA Method 646352 LowLimit 54.2 69 PA Method 724 646353	Units: mg/K HighLimit 130 147 8015M/D: Die Units: mg/K HighLimit 135 147 8015M/D: Die Units: mg/K	g %RPD sel Range %RPD sel Range	Organics RPDLimit Organics	Qual

#### 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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Client: HILCO	RP ENERG	Y								
Project: Seymo	ur 6									
Sample ID: MB-77712	SampT	Гуре: <b>МВ</b>	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	h ID: 777	712	F	RunNo: <b>9</b> 9	9951				
Prep Date: 9/22/2023	Analysis D	Date: <b>9/</b> 2	25/2023	S	SeqNo: 36	56252	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	69	147			
Sample ID: LCS-77712	SampT	Type: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	h ID: 777	/12	F	RunNo: <b>9</b> 9	9951				
Prep Date: 9/22/2023	Analysis D	Date: 9/2	25/2023	S	SeqNo: 36	656257	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	105	61.9	130			
Surr: DNOP	5.3		5.000		106	69	147			

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- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL

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2309743

27-Sep-23

WO#:

	WO#:	2309743
Inc.		27-Sep-23

Client: HILCOR	P ENERGY								
Project: Seymour	6								
Sample ID: 2.5ug gro Ics	2.5ug gro lcs SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: <b>G99696</b>		RunNo: 99696						
Prep Date:	Analysis Date: 9/1	4/2023	S	SeqNo: 36	642725	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24 5.0	25.00	0	96.0	70	130			
Surr: BFB	2100	1000		211	15	244			
Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: G99696		RunNo: <b>99696</b>						
Prep Date:	Analysis Date: 9/14/2023		SeqNo: 3642726 Units			Units: mg/K	nits: mg/Kg		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0	1000		400	45	044			
Surr: BFB	1000	1000		102	15	244			
Sample ID: 2309743-001ams	SampType: <b>MS</b>		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SS01b	Batch ID: G9			RunNo: <b>9</b> 9					
Prep Date:	Analysis Date: 9/1	4/2023	S	SeqNo: 36	642728	Units: mg/K	g		
Analyte	Result PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	18 3.8 1600	18.82 753.0	0	96.8 217	70 15	130 244			
Sample ID: 2309743-001amsd		SampType: <b>MSD</b>		TestCode: EPA Method 8015D: Gasoline Range					
Client ID: SS01b	Batch ID: <b>G99696</b>		RunNo: <b>99696</b>						
Prep Date:	Analysis Date: 9/1			SeqNo: 36		Units: mg/K	•		
Analyte Gasoline Range Organics (GRO)	Result PQL 18 3.8	SPK value 18.82	SPK Ref Val 0	%REC 97.3	LowLimit 70	HighLimit 130	%RPD 0.536	RPDLimit 20	Qual
Surr: BFB	1600	753.0	0	218	15	244	0.550	0	
Sample ID: Ics-77523	SampTuros: LC	<u> </u>	Tos	tCodo: EI	DA Mothod	901ED: Casa	line Dense		
Client ID: LCSS	SampType: LCS Batch ID: 77523		TestCode: EPA Method 8015D: Gasoline Range RunNo: 99729						
Prep Date: 9/14/2023	Analysis Date: 9/16/2023		SeqNo: 3645789 Units: mg/K			a			
Analyte				%REC			%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	Result PQL 23 5.0	25.00	SPK Ref Val 0	93.0	LowLimit 70	HighLimit 130	/0KFU		Qual
Surr: BFB	2000	1000		203	15	244			
Sample ID: mb-77523	SampType: <b>MB</b>	LK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: PBS	Batch ID: <b>77523</b>		RunNo: 99729						
Prep Date: 9/14/2023	Analysis Date: 9/1	6/2023		SeqNo: 36		Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	- %RPD	RPDLimit	Qual
		5	2	,			, B		~~~

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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Client: HILCO	RP ENERGY						
Project: Seymou	r 6						
Sample ID: mb-77523	SampType: MBLK	Те	stCode: EDA Mathad	2015D: Casalina Bang			
Client ID: PBS	Batch ID: 77523	i e	TestCode: EPA Method 8015D: Gasoline Range				
Prep Date: 9/14/2023	Analysis Date: 9/16/202	2	RunNo: <b>99729</b> SeqNo: <b>3645791</b> Units: <b>mg/Kg</b>				
				00			
Analyte		value SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit Qual		
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 950	1000	95.3 15	244			
Sample ID: 2309743-008ams	SampType: MS	Te	estCode: EPA Method	8015D: Gasoline Range	9		
Client ID: SS05c	Batch ID: 77523		RunNo: <b>99729</b>				
Prep Date: 9/14/2023	Analysis Date: 9/16/202	3	SeqNo: 3645822	Units: <b>mg/Kg</b>			
Analyte	Result PQL SPK	value SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit Qual		
Gasoline Range Organics (GRO)	23 4.8	23.88 0	95.0 70	130			
Surr: BFB	2000	955.1	208 15	244			
Sample ID: 2309743-008ams	d SampType: MSD	Те	TestCode: EPA Method 8015D: Gasoline Range				
Client ID: SS05c	Batch ID: 77523		RunNo: <b>99729</b>				
Prep Date: 9/14/2023	Analysis Date: 9/16/202	3	SeqNo: 3645823	Units: <b>mg/Kg</b>			
Analyte	Result PQL SPK	value SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit Qual		
Gasoline Range Organics (GRO)	22 4.8	24.22 0	91.6 70	130 2.16	20		
Surr: BFB	2000	969.0	205 15	244 0	0		
Sample ID: Ics-77519	SampType: LCS	Те	stCode: EPA Method	8015D: Gasoline Range	)		
Client ID: LCSS	Batch ID: 77519		RunNo: 99730				
Prep Date: 9/14/2023	Analysis Date: 9/15/202	3	SeqNo: 3645977	Units: <b>mg/Kg</b>			
Analyte	Result PQL SPK	value SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit Qual		
Gasoline Range Organics (GRO)	23 5.0	25.00 0	93.6 70	130			
Surr: BFB	2100	1000	213 15	244			
Sample ID: mb-77519	SampType: MBLK	Те	estCode: EPA Method	8015D: Gasoline Range	)		
Client ID: PBS	Batch ID: 77519		RunNo: <b>99730</b>				
Prep Date: 9/14/2023	Analysis Date: 9/15/202	3	SeqNo: 3645978	Units: <b>mg/Kg</b>			
Analyte	Result PQL SPK	value SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit Qual		
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 970	1000	96.9 15	244			
Sample ID: Ics-77709	SampType: LCS	Te	stCode: EPA Method	8015D: Gasoline Range	)		
Client ID: LCSS	Batch ID: 77709		RunNo: <b>99959</b>				
Prep Date: 9/22/2023	Analysis Date: 9/25/202	3	SeqNo: 3656340	Units: <b>mg/Kg</b>			
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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 72 of 121

WO#:	2309743
	27-Sep-23

Client: HILCON Project: Seymou	RP ENERGY r 6	Y								
Sample ID: Ics-77709	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: LCSS	Batch	ID: 777	709	F	RunNo: <b>9</b> 9	9959				
Prep Date: 9/22/2023	Analysis D	ate: 9/2	25/2023	S	SeqNo: 36	656340	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.6	70	130			
Surr: BFB	2100		1000		207	15	244			
Sample ID: mb-77709	SampT	уре: <b>МВ</b>	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: PBS	Batch	ID: 777	709	F	RunNo: <b>9</b> 9	9959				
Prep Date: 9/22/2023	Analysis D	ate: 9/2	25/2023	S	SeqNo: 36	56341	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	15	244			

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

WO#: 2309743 27-Sep-23

**Client:** 

### **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

HILCORP ENERGY

Project:	Seymour (	6									
Sample ID:	100ng btex lcs	Samp	Гуре: <b>LC</b>	S	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID:	LCSS	Batc	h ID: <b>R9</b>	9696	F	RunNo: <b>9</b> 9	9696				
Prep Date:		Analysis [	Date: <b>9/</b> *	14/2023	S	SeqNo: 36	642720	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.89	0.025	1.000	0	89.2	70	130			
Toluene		0.90	0.050	1.000	0	90.5	70	130			
Ethylbenzene		0.93	0.050	1.000	0	92.7	70	130			
Xylenes, Total		2.8	0.10	3.000	0	92.8	70	130			
Surr: 4-Brom	nofluorobenzene	0.91		1.000		91.1	39.1	146			
Sample ID:	mb	Samp	Гуре: <b>МЕ</b>	BLK	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID:	PBS	Batc	h ID: <b>R9</b>	9696	F	RunNo: <b>9</b> 9	9696				
Prep Date:		Analysis [	Date: <b>9/</b> *	14/2023	S	SeqNo: 36	642721	Units: <b>mg/K</b>	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-Brom	nofluorobenzene	0.91		1.000		90.7	39.1	146			
Sample ID:	2309743-001ams	SampType: MS TestCode: EPA Method 8021B: Volatiles									
Client ID:	SS01b	Batc	h ID: <b>R9</b>	9696	F	RunNo: <b>9</b> 9	9696				
Prep Date:		Analysis [	Date: <b>9/</b>	14/2023	S	SeqNo: 36	642723	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.66	0.019	0.7530	0	87.3	70	130			
Toluene		0.67	0.038	0.7530	0	88.4	70	130			
Ethylbenzene		0.68	0.038	0.7530	0	90.6	70	130			
Xylenes, Total		2.0	0.075	2.259	0	90.5	70	130			
Surr: 4-Brom	nofluorobenzene	0.66		0.7530		88.1	39.1	146			
Sample ID:	2309743-001amsd	Samp	Гуре: <b>МS</b>	D	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID:	SS01b	Batc	h ID: <b>R9</b>	9696	F	RunNo: <b>9</b> 9	9696				
Prep Date:		Analysis [	Date: <b>9/</b>	14/2023	S	SeqNo: 36	642724	Units: <b>mg/K</b>	g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.65	0.019	0.7530	0	86.7	70	130	0.678	20	
<b>_</b> .		0.66	0.038	0.7530	0	87.5	70	130	0.968	20	
Toluene		0.67	0.038	0.7530	0	89.4	70	130	1.31	20	
						00.0	70	130	1.48	20	
Toluene Ethylbenzene Xylenes, Total		2.0	0.075	2.259	0	89.2	70	100	1.40	20	

- \* 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
- S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL

% Recovery outside of standard limits. If undiluted results may be estimated.

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WO#: 2309743

27-Sep-23

Client: Project:	HILCORF Seymour (		Y								
Sample ID:	LCS-77523	SampT	ype: LC	s	TestCode: EPA Method 8021B: Volatiles						
Client ID:	LCSS	Batch	n ID: 77	523	RunNo: 99729						
Prep Date:	9/14/2023	Analysis E				SeqNo: 36		Units: mg/K	a		
•	••••	•				•		-	-		<u> </u>
Analyte Benzene		Result 0.97	PQL 0.025	SPK value 1.000	SPK Ref Val 0	%REC 97.4	LowLimit 70	HighLimit 130	%RPD	RPDLimit	Qual
Toluene		0.97	0.025	1.000	0	97.4 97.1	70	130			
Ethylbenzene		0.97	0.050	1.000	0	97.2	70	130			
Xylenes, Total		2.9	0.10	3.000	0	97.4	70	130			
-	nofluorobenzene	1.1		1.000	-	107	39.1	146			
Sample ID:	mb-77523	SampT	уре: МЕ	BLK	TestCode: EPA Method 80						
Client ID:	PBS	Batch	n ID: 77	523	F	RunNo: <b>9</b> 9	9729				
Prep Date:	9/14/2023	Analysis D	Date: <b>9/</b>	16/2023	S	SeqNo: 36	645872	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-Bron	nofluorobenzene	1.0		1.000		105	39.1	146			
Sample ID:	2309743-009ams	SampT	ype: MS	3	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID:	SS06c	Batcl	n ID: 77	523	F	RunNo: <b>9</b> 9	9729				
Prep Date:	9/14/2023	Analysis D	Date: <b>9/</b>	16/2023	S	SeqNo: 36	645896	Units: mg/K	g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.025	0.9862	0	106	70	130			
Toluene		1.1	0.049	0.9862	0	107	70	130			
Ethylbenzene		1.1	0.049	0.9862	0	106	70	130			
Xylenes, Total		3.2	0.099	2.959	0	107	70	130			
Surr: 4-Bron	nofluorobenzene	1.1		0.9862		107	39.1	146			
•	2309743-009amsd		уре: <b>МS</b>					8021B: Volati	les		
Client ID:	SS06c	Batch	n ID: 77	523	F	RunNo: <b>9</b> 9	9729				
		Analycic F		16/2023	5	SeqNo: 36	645897	Units: mg/K	g		
Prep Date:	9/14/2023	Allalysis L	ale. <b>9</b>	10/2023							
Analyte	9/14/2023	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte Benzene	9/14/2023	Result 0.95	PQL 0.025	SPK value 0.9891	SPK Ref Val 0	96.0	70	130	9.56	20	Qual
Analyte Benzene Toluene	9/14/2023	Result 0.95 0.96	PQL 0.025 0.049	SPK value 0.9891 0.9891	SPK Ref Val 0 0	96.0 96.6	70 70	130 130	9.56 9.91	20 20	Qual
Analyte Benzene Toluene Ethylbenzene		Result 0.95 0.96 0.96	PQL 0.025 0.049 0.049	SPK value 0.9891 0.9891 0.9891	SPK Ref Val 0 0 0	96.0 96.6 97.5	70 70 70	130 130 130	9.56 9.91 8.47	20 20 20	Qual
Analyte Benzene Toluene Ethylbenzene Kylenes, Total		Result 0.95 0.96	PQL 0.025 0.049	SPK value 0.9891 0.9891	SPK Ref Val 0 0	96.0 96.6	70 70	130 130	9.56 9.91	20 20	Qual

#### **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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL

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WO#: 2309743 27-Sep-23

Client:	HILCORF	ENERG	Y								
Project:	Seymour 6	5									
Sample ID:	lcs-77519	SampT	уре: <b>LC</b>	S	Tes	tCode: El	PA Method	8021B: Volatil	es		
Client ID:	LCSS	Batch	n ID: 77	519	F	RunNo: <b>9</b> 9	9730				
Prep Date:	9/14/2023	Analysis D	Date: <b>9/</b> *	15/2023	S	SeqNo: 3	646017	Units: mg/Kg	9		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.92	0.025	1.000	0	92.1	70	130			
Toluene		0.93	0.050	1.000	0	92.9	70	130			
Ethylbenzene		0.95	0.050	1.000	0	94.9	70	130			
Xylenes, Total		2.9	0.10	3.000	0	95.3	70	130			
Surr: 4-Bron	nofluorobenzene	0.90		1.000		90.4	39.1	146			
Sample ID:	mb-77519	SampType: MBLK TestCode: EPA Method 8021B: Volatiles									
Client ID:	PBS	Batch	n ID: 77	519	F	RunNo: <b>9</b> 9	9730				
Prep Date:	9/14/2023	Analysis D	Date: <b>9/</b> *	15/2023	S	SeqNo: 3	646018	Units: mg/Kg	9		
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-Bron	nofluorobenzene	0.89		1.000		89.1	39.1	146			
Sample ID:	lcs-77709	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volatil	es		
Client ID:	LCSS	Batch	n ID: 777	709	F	RunNo: <b>9</b> 9	9959				
Prep Date:	9/22/2023	Analysis D	Date: <b>9/</b> 2	25/2023	S	SeqNo: 3	656373	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	0.91		1.000		90.8	39.1	146			
Sample ID:	mb-77709	SampT	уре: МЕ	BLK	Tes	tCode: Ef	PA Method	8021B: Volatil	es		
Client ID:	PBS	Batch	n ID: 777	709	F	RunNo: <b>9</b> 9	9959				
Prep Date:	9/22/2023	Analysis D	Date: 9/2	25/2023	S	SeqNo: 3	656374	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	0.89		1.000		88.9	39.1	146			

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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WO#: 2309743

27-Sep-23

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-3975	Analysis Laboratory 4901 Hawkins NE uquerque, NM 87105 FAX: 505-345-4107 illenvironmental.com	Sam	ple Log-In Check List
Client Name: HILCORP ENERGY	Work Order Number:	2309743		RcptNo: 1
Received By: Tracy Casarrubias	9/14/2023 6:30:00 AM			
Completed By: Tracy Casarrubias Reviewed By: 9-14-23	9/14/2023 7:02:06 AM			
Chain of Custody		_	_	_
1. Is Chain of Custody complete?		Yes	No 🗹	Not Present
2. How was the sample delivered?		Courier		
Log In 3. Was an attempt made to cool the samples?		Yes 🔽	No 🗌	NA 🗌
4. Were all samples received at a temperature of	f >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌	
6. Sufficient sample volume for indicated test(s)?	,	Yes 🗹	No 🗌	
$7_{\rm \cdot}$ Are samples (except VOA and ONG) properly	preserved?	Yes 🗹	No 🗌	
8. Was preservative added to bottles?		Yes 🗌	No 🔽	NA 🗌
9. Received at least 1 vial with headspace <1/4"	for AQ VOA?	Yes	No 🗌	NA 🗹
10. Were any sample containers received broken	?	Yes	No 🗹	# of preserved
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes Allely	No 🕒	bottles checked for pH: (<2 dr >12 unless noted)
12. Are matrices correctly identified on Chain of C	ustody?	Yes 🗹	No 🗌	Adjusted?
<ul><li>13. Is it clear what analyses were requested?</li><li>14. Were all holding times able to be met?</li></ul>		Yes 🗹 Yes 🗹	No 🗌 No 🗌	Checked by: 5CM 9/14/25
(If no, notify customer for authorization.)				
<b>Special Handling (if applicable)</b> 15. Was client notified of all discrepancies with th	is order?	Yes 🔽	No 🗌	NA 5 TIME 9/14/2]
Person Notified: Mitch K. By Whom: TYOUL (.	Date: C	R 114 DeMail D Phor	ne 🗌 Fax	
www use	one number and Email/	the summer provide the start which provides have a summary	n COC- TM	9/14/23 MUSS taid othornik
16. Additional remarks:				proceeding - The 9/4
		Seal Date Sig	gned By	[] In Person <u>Know We</u> will proceed w/oc 29/14/23 UNUSS told otherwise proceeding - The ally with Coe pr ME The 9/14/23
1 0.9 Good Yes	Morty			
Dere Loff				
Page 1 of 1				

Page 77 of 121

Received by OCD: 11/20/2023 10:01:36 AM		Page 78 of 121
Chain-of-Custody Record	Time:	
Client: Hil corp/Mitch Killough	A Standard □ Rush SSOID 00/w     Project Name:	
M Kultouch O hil corp. com Mailing Address:	Seymour 6	4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	
Phone #:		/sis Requ
email or Fax#:	Project Manager:	*OS
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Accreditation:	Sampler: Arch Wyw Sampler: Arch Wyw	0 / 1 3/808 3/808 5 01 82 5 7 04 1 04 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 1 0 1 1 0 1 1 1 1 0 1
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	Cooler Temp(Including CF): 0.9 - 0 = 0.9 (°C)	Date       Date       display=       di
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Chain of Custody Docord	Turn-Around Time:	
Client: 11 An. 1. 1. 1. 1.	- S-day Retrodard Buch	
whill over Mitch Killows		art L
Mailing Address:	Seymour 6	4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #:		Analysis Request
email or Fax#:	nag	⁺OS (O)
QA/QC Package:		s'#0
Standard Level 4 (Full Validation)	shydee onsolum, com	ыд <sup>•?</sup> S02 Dd 7 ОХ
Accreditation:	Sampler: Zuch Wyer	ON '
(be)	olers:	(GK 310 ( 310 ( 310))))))))))))))))))))))))))))))))))))
	Cooler Temp(Induding CF): 0. A ~ & . 0. 9 (°C)	15D etho bitse by 83 by 84 by 85 by
	Container Preservative HEAL No.	og 18 M) 80 B ≥H7 B ≥A9 B −, ¬ <b>(</b> D = ( V) 05 E (S) (S)
Date Time Matrix Sample Name	# Type 230	82 82 85 80 80
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1 1459 1 5511 c		
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15A 5516C	019	
1524 5518C	010	
55	021	
11534 1 55200	100	
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Date: Time: Relinquished by:	Received by: Viai Viai Unate lime	Kemarks:
	Received by: Via: Country Date Time U:3C	cc: Zmyers E Onsolum.con
o Imaging: 2/26/20		This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

November 03, 2023 Mitch Killough HILCORP ENERGY

PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX:

RE: Seymor 6

OrderNo.: 2310B59

Dear Mitch Killough:

Eurofins Environment Testing South Central, LLC received 9 sample(s) on 10/25/2023 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 do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Seymor 6

Project:

**Analytical Report** Lab Order 2310B59

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/3/2023 Client Sample ID: WS01D Collection Date: 10/24/2023 11:10:00 AM

-J					
Lab ID: 2310B59-001	Matrix: SOIL	Rece	eived Date:	10/25/	2023 7:10:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/27/2023 2:18:35 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/27/2023 2:18:35 PM
Surr: DNOP	106	69-147	%Rec	1	10/27/2023 2:18:35 PM
EPA METHOD 8015D: GASOLINE F	ANGE				Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/31/2023 1:06:00 AM
Surr: BFB	101	15-244	%Rec	1	10/31/2023 1:06:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.023	mg/Kg	1	10/31/2023 1:06:00 AM
Toluene	ND	0.046	mg/Kg	1	10/31/2023 1:06:00 AM
Ethylbenzene	ND	0.046	mg/Kg	1	10/31/2023 1:06:00 AM
Xylenes, Total	ND	0.092	mg/Kg	1	10/31/2023 1:06:00 AM
Surr: 4-Bromofluorobenzene	85.2	39.1-146	%Rec	1	10/31/2023 1:06:00 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	10/31/2023 1:44:10 AM

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 standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

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**Analytical Report** Lab Order 2310B59

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/3/2023 Client Sample ID: SS01E Collection Date: 10/24/2023 11:15:00 AM

Project:	Seymor 6		Collec	tion Date:	10/24/	2023 11:15:00 AM
Lab ID:	2310B59-002	Matrix: SOIL	Rece	ived Date:	10/25/	2023 7:10:00 AM
Analyses		Result	RL Qua	al Units	DF	Date Analyzed
EPA ME	THOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst: PRD
Diesel R	ange Organics (DRO)	10	9.8	mg/Kg	1	10/27/2023 2:29:23 PM
Motor Oi	I Range Organics (MRO)	ND	49	mg/Kg	1	10/27/2023 2:29:23 PM
Surr: I	DNOP	106	69-147	%Rec	1	10/27/2023 2:29:23 PM
EPA ME	THOD 8015D: GASOLINE F	RANGE				Analyst: KMN
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	10/31/2023 1:28:00 AM
Surr: I	BFB	103	15-244	%Rec	1	10/31/2023 1:28:00 AM
EPA ME	THOD 8021B: VOLATILES					Analyst: KMN
Benzene	•	ND	0.025	mg/Kg	1	10/31/2023 1:28:00 AM
Toluene		ND	0.049	mg/Kg	1	10/31/2023 1:28:00 AM
Ethylben	zene	ND	0.049	mg/Kg	1	10/31/2023 1:28:00 AM
Xylenes,	Total	ND	0.099	mg/Kg	1	10/31/2023 1:28:00 AM
Surr: 4	4-Bromofluorobenzene	85.4	39.1-146	%Rec	1	10/31/2023 1:28:00 AM
EPA ME	THOD 300.0: ANIONS					Analyst: KCB
Chloride		ND	60	mg/Kg	20	10/31/2023 1:56:35 AM

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
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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**Analytical Report** Lab Order 2310B59

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/3/2023 Client Sample ID: SS03D

Project: Seymor 6		Col	llectio	n Date:	10/24/	2023 11:43:00 AM
Lab ID: 2310B59-003	Matrix: SOIL	R	eceive	ed Date:	10/25/	2023 7:10:00 AM
Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIE	SEL RANGE ORGANICS					Analyst: PRD
Diesel Range Organics (DRO)	250	89		mg/Kg	10	10/27/2023 11:47:00 AM
Motor Oil Range Organics (MRO)	510	440		mg/Kg	10	10/27/2023 11:47:00 AM
Surr: DNOP	0	69-147	S	%Rec	10	10/27/2023 11:47:00 AM
EPA METHOD 8015D: GASO	LINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/31/2023 1:49:00 AM
Surr: BFB	97.1	15-244		%Rec	1	10/31/2023 1:49:00 AM
EPA METHOD 8021B: VOLA	TILES					Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	10/31/2023 1:49:00 AM
Toluene	ND	0.047		mg/Kg	1	10/31/2023 1:49:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/31/2023 1:49:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	10/31/2023 1:49:00 AM
Surr: 4-Bromofluorobenzene	83.5	39.1-146		%Rec	1	10/31/2023 1:49:00 AM
EPA METHOD 300.0: ANION	S					Analyst: KCB
Chloride	ND	60		mg/Kg	20	10/31/2023 2:08:59 AM

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

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL

Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 3 of 14

Seymor 6

2310B59-004

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2310B59

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/3/2023 Client Sample ID: SS06D Collection Date: 10/24/2023 12:10:00 PM

Received Date: 10/25/2023 7:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	27	9.4	mg/Kg	1	10/27/2023 2:40:15 PM
Motor Oil Range Organics (MRO)	58	47	mg/Kg	1	10/27/2023 2:40:15 PM
Surr: DNOP	101	69-147	%Rec	1	10/27/2023 2:40:15 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/31/2023 2:11:00 AM
Surr: BFB	101	15-244	%Rec	1	10/31/2023 2:11:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.023	mg/Kg	1	10/31/2023 2:11:00 AM
Toluene	ND	0.047	mg/Kg	1	10/31/2023 2:11:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	10/31/2023 2:11:00 AM
Xylenes, Total	ND	0.093	mg/Kg	1	10/31/2023 2:11:00 AM
Surr: 4-Bromofluorobenzene	84.8	39.1-146	%Rec	1	10/31/2023 2:11:00 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	10/31/2023 2:21:24 AM

Matrix: SOIL

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

Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 4 of 14

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Seymor 6

2310B59-005

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2310B59

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/3/2023 Client Sample ID: SS10D

Collection Date: 10/24/2023 12:40:00 PM Received Date: 10/25/2023 7:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	18	9.6	mg/Kg	1	10/27/2023 3:02:59 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/27/2023 3:02:59 PM
Surr: DNOP	107	69-147	%Rec	1	10/27/2023 3:02:59 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/31/2023 2:33:00 AM
Surr: BFB	106	15-244	%Rec	1	10/31/2023 2:33:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	10/31/2023 2:33:00 AM
Toluene	ND	0.050	mg/Kg	1	10/31/2023 2:33:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	10/31/2023 2:33:00 AM
Xylenes, Total	ND	0.10	mg/Kg	1	10/31/2023 2:33:00 AM
Surr: 4-Bromofluorobenzene	85.3	39.1-146	%Rec	1	10/31/2023 2:33:00 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	10/31/2023 2:33:48 AM

Matrix: SOIL

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

Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 5 of 14

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Seymor 6

Project:

Analytical Report Lab Order 2310B59

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/3/2023

Client Sample ID: SS15D	
Collection Date: 10/24/2023 12:45:00 PM	
Received Date: 10/25/2023 7:10:00 AM	

Lab ID: 2310B59-006	Matrix: SOIL	Reco	eived Date:	10/25/	2023 7:10:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	37	9.0	mg/Kg	1	10/27/2023 3:13:48 PM
Motor Oil Range Organics (MRO)	160	45	mg/Kg	1	10/27/2023 3:13:48 PM
Surr: DNOP	92.1	69-147	%Rec	1	10/27/2023 3:13:48 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/31/2023 2:54:00 AM
Surr: BFB	98.5	15-244	%Rec	1	10/31/2023 2:54:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.023	mg/Kg	1	10/31/2023 2:54:00 AM
Toluene	ND	0.046	mg/Kg	1	10/31/2023 2:54:00 AM
Ethylbenzene	ND	0.046	mg/Kg	1	10/31/2023 2:54:00 AM
Xylenes, Total	ND	0.093	mg/Kg	1	10/31/2023 2:54:00 AM
Surr: 4-Bromofluorobenzene	85.4	39.1-146	%Rec	1	10/31/2023 2:54:00 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	10/31/2023 3:11:01 AM

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Seymor 6

**Project:** 

**Analytical Report** Lab Order 2310B59

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/3/2023

Client Sample ID: SS13D Collection Date: 10/24/2023 1:45:00 PM Received Date: 10/25/2023 7:10:00 AM

Lab ID: 2310B59-007	Matrix: SOIL	Reco	eived Date:	10/25/	/2023 7:10:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	10/27/2023 3:35:16 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	10/27/2023 3:35:16 PM
Surr: DNOP	112	69-147	%Rec	1	10/27/2023 3:35:16 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/31/2023 3:16:00 AM
Surr: BFB	98.8	15-244	%Rec	1	10/31/2023 3:16:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	10/31/2023 3:16:00 AM
Toluene	ND	0.050	mg/Kg	1	10/31/2023 3:16:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	10/31/2023 3:16:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	10/31/2023 3:16:00 AM
Surr: 4-Bromofluorobenzene	85.6	39.1-146	%Rec	1	10/31/2023 3:16:00 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	10/31/2023 3:23:26 AM

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

Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 7 of 14

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Seymor 6

2310B59-008

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2310B59

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/3/2023 Client Sample ID: SS14D

Collection Date: 10/24/2023 1:50:00 PM Received Date: 10/25/2023 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	10/27/2023 3:46:04 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/27/2023 3:46:04 PM
Surr: DNOP	118	69-147	%Rec	1	10/27/2023 3:46:04 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/31/2023 3:37:00 AM
Surr: BFB	100	15-244	%Rec	1	10/31/2023 3:37:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	10/31/2023 3:37:00 AM
Toluene	ND	0.048	mg/Kg	1	10/31/2023 3:37:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/31/2023 3:37:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	10/31/2023 3:37:00 AM
Surr: 4-Bromofluorobenzene	86.6	39.1-146	%Rec	1	10/31/2023 3:37:00 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	10/31/2023 3:35:51 AM

Matrix: SOIL

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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Seymor 6

**Project:** 

**Analytical Report** Lab Order 2310B59

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/3/2023

Client Sample ID: SS19D Collection Date: 10/24/2023 2:02:00 PM Received Date: 10/25/2023 7:10:00 AM

Lab ID: 2310B59-009	Matrix: SOIL	Rece	eived Date:	10/25/	2023 7:10:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	13	9.7	mg/Kg	1	10/31/2023 10:07:20 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/31/2023 10:07:20 AM
Surr: DNOP	101	69-147	%Rec	1	10/31/2023 10:07:20 AM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/31/2023 8:10:00 PM
Surr: BFB	105	15-244	%Rec	1	10/31/2023 8:10:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	10/31/2023 8:10:00 PM
Toluene	ND	0.048	mg/Kg	1	10/31/2023 8:10:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/31/2023 8:10:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/31/2023 8:10:00 PM
Surr: 4-Bromofluorobenzene	89.5	39.1-146	%Rec	1	10/31/2023 8:10:00 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	10/31/2023 3:48:15 AM

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 standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 9 of 14

Client: Project:	HILCORI Seymor 6	P ENERG	Y								
Sample ID:	MB-78458	SampT	ype: <b>mb</b>	olk	Tes	tCode: EF	PA Method	300.0: Anions	5		
Client ID:	PBS	Batch	n ID: <b>78</b> 4	458	F	RunNo: <b>10</b>	00821				
Prep Date:	10/30/2023	Analysis D	Date: 10	/31/2023	S	SeqNo: 36	699509	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-78458	SampT	ype: Ics	;	Tes	tCode: EF	PA Method	300.0: Anions	5		
Client ID:	LCSS	Batch	n ID: <b>78</b> 4	458	F	RunNo: <b>10</b>	00821				
Prep Date:	10/30/2023	Analysis D	Date: 10	/31/2023	S	SeqNo: 36	699510	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	95.9	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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2310B59

03-Nov-23

WO#:

Client: HILCOR	<b>PENERGY</b>								
Project: Seymor 6	5								
Sample ID: LCS-78400	SampType: LCS		Test	Code: EP	A Method	8015M/D: Dies	sel Range	Organics	
Client ID: LCSS	Batch ID: 78400		R	unNo: <b>10</b>	0779				
Prep Date: 10/26/2023	Analysis Date: 10/27	/2023	S	eqNo: 36	97663	Units: mg/Kg	9		
Analyte	Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57 10	50.00	0	114	61.9	130			
Surr: DNOP	7.3	5.000		146	69	147			
Sample ID: MB-78400	SampType: MBLK	Σ.	Test	Code: EP	A Method	8015M/D: Dies	sel Range	Organics	
Client ID: PBS	Batch ID: 78400		R	unNo: 10	0779				
Prep Date: 10/26/2023	Analysis Date: 10/27	/2023	S	eqNo: 36	97665	Units: mg/Kg	9		
Analyte	Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO) Surr: DNOP	ND 50 12	10.00		120	69	147			
	12	10.00		120	69	147			
Sample ID: LCS-78449	SampType: LCS		Test	Code: EP	A Method	8015M/D: Dies	el Range	Organics	
Client ID: LCSS	Batch ID: 78449		R	unNo: 10	0863				
Prep Date: 10/30/2023	Analysis Date: 10/31	/2023	S	eqNo: 37	00786	Units: mg/Kg	9		
Analyte	Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59 10	50.00	0	117	61.9	130			
Surr: DNOP	7.4	5.000		148	69	147			S
Sample ID: MB-78449									
	SampType: MBLK	Σ.	Test	Code: EP	A Method	8015M/D: Dies	sel Range	Organics	
Client ID: PBS	SampType: MBLK Batch ID: 78449			Code: EP		8015M/D: Dies	sel Range	Organics	
			R		0863	B015M/D: Dies Units: mg/Kg		Organics	
Client ID: PBS	Batch ID: <b>78449</b> Analysis Date: <b>10/31</b>	/2023	R	unNo: <b>10</b>	0863			Organics RPDLimit	Qual
Client ID: PBS Prep Date: 10/30/2023	Batch ID: <b>78449</b> Analysis Date: <b>10/31</b>	/2023	R	unNo: <b>10</b> eqNo: <b>37</b>	0863 00789	Units: <b>mg/K</b>	3	-	Qual
Client ID: <b>PBS</b> Prep Date: <b>10/30/2023</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	Batch ID: <b>78449</b> Analysis Date: <b>10/31</b> Result PQL S ND 10 ND 50	<b>/2023</b> PK value	R	unNo: <b>10</b> eqNo: <b>37</b> %REC	0863 00789 LowLimit	Units: <b>mg/K</b> g HighLimit	3	-	Qual
Client ID: <b>PBS</b> Prep Date: <b>10/30/2023</b> Analyte Diesel Range Organics (DRO)	Batch ID: <b>78449</b> Analysis Date: <b>10/31</b> Result PQL S ND 10	/2023	R	unNo: <b>10</b> eqNo: <b>37</b>	0863 00789	Units: <b>mg/K</b>	3	-	Qual
Client ID: <b>PBS</b> Prep Date: <b>10/30/2023</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	Batch ID: <b>78449</b> Analysis Date: <b>10/31</b> Result PQL S ND 10 ND 50	<b>/2023</b> PK value	R S SPK Ref Val	unNo: 10 aqNo: 37 %REC 115	0863 00789 LowLimit 69	Units: <b>mg/K</b> g HighLimit	9 %RPD	RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: <b>10/30/2023</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP	Batch ID: <b>78449</b> Analysis Date: <b>10/31</b> Result PQL S ND 10 ND 50 11	<b>/2023</b> PK value 10.00	R S SPK Ref Val Test	unNo: 10 aqNo: 37 %REC 115	0863 00789 LowLimit 69 A Method 3	Units: <b>mg/Kg</b> HighLimit 147	9 %RPD	RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: <b>10/30/2023</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: <b>LCS-78476</b>	Batch ID: <b>78449</b> Analysis Date: <b>10/31</b> Result PQL S ND 10 ND 50 11 SampType: <b>LCS</b>	<b>/2023</b> PK value 10.00	R S SPK Ref Val Test R	unNo: 10 eqNo: 37 %REC 115	0863 00789 LowLimit 69 A Method 3 0868	Units: <b>mg/Kg</b> HighLimit 147	9 %RPD	RPDLimit	Qual

Qualifiers:

Surr: DNOP

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S

6.0

в Analyte detected in the associated Method Blank

120

69

147

- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

5.000

2310B59

03-Nov-23

WO#:

Page 11 of 14

Client:	HILCO	RP ENERG	Y								
Project:	Seymor	6									
Sample ID:	MB-78476	SampT	ype: ME	BLK	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batch	ID: 78	476	F	RunNo: <b>1(</b>	0868				
Prep Date:	10/31/2023	Analysis D	ate: 11	1/1/2023	S	SeqNo: 37	01938	Units: %Rec	:		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		12		10.00		119	69	147			

#### 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2310B59

03-Nov-23

WO#:

Client: Project:	HILCORI Seymor 6	PENERGY	7								
Sample ID:	lcs-78367	SampTy	/pe: LC	S	TestCode: EPA Method 8015D: Gasoline Range						
Client ID:	LCSS	Batch	ID: 783	367	RunNo: 100829						
Prep Date:	10/25/2023	Analysis Da	ate: 10	/30/2023	S	SeqNo: 3	699748	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	24	5.0	25.00	0	95.3	70	130			
Surr: BFB		2300		1000		228	15	244			
Sample ID:	mb-78367	SampTy	/pe: <b>ME</b>	BLK	Tes	tCode: El	PA Method	8015D: Gasol	ine Range		
Client ID:	PBS	Batch	ID: 783	367	F	RunNo: 1	00829				
Prep Date:	10/25/2023	Analysis Da	ate: 10	/30/2023	S	SeqNo: 3	699749	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	ND	5.0								
Surr: BFB		1000		1000		101	15	244			
Sample ID:	lcs-78421	SampTy	/pe: <b>LC</b>	S	Tes	tCode: El	PA Method	8015D: Gasol	ine Range		
Client ID:	LCSS	Batch	ID: 784	<b>1</b> 21	F	RunNo: 1	00865				
Prep Date:	10/27/2023	Analysis Da	ate: 10	/31/2023	S	SeqNo: 3	700821	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	24	5.0	25.00	0	94.2	70	130			
Surr: BFB		2200		1000		221	15	244			
Sample ID:	mb-78421	SampTy	/pe: <b>ME</b>	BLK	Tes	tCode: El	PA Method	8015D: Gasol	ine Range		
Client ID:	PBS	Batch	ID: 784	421	F	RunNo: 1	00865				
Prep Date:	10/27/2023	Analysis Da	ate: 10	/31/2023	S	SeqNo: 3	700822	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	ge Organics (GRO)	ND	5.0								
Surr: BFB		1100		1000		108	15	244			

#### **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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

WO#: 2310B59 03-Nov-23

Client: Project:	HILCORF Seymor 6	P ENERG	Y								
	-										
Sample ID:	lcs-78367	Samp	Гуре: <b>LC</b>	S		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batc	h ID: 78:	367	RunNo: 100829						
Prep Date:	10/25/2023	Analysis [	Date: 10	/30/2023	SeqNo: 3699713			Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.86	0.025	1.000	0	86.0	70	130			
Toluene		0.86	0.050	1.000	0	85.7	70	130			
Ethylbenzene		0.87	0.050	1.000	0	87.3	70	130			
Xylenes, Total		2.6	0.10	3.000	0	87.5	70	130			
Surr: 4-Brom	nofluorobenzene	0.92		1.000		91.7	39.1	146			
Sample ID:	mb-78367	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID:	PBS	Batc	h ID: <b>78</b> :	367	F	RunNo: <b>1(</b>	00829				
Prep Date:	10/25/2023	Analysis [	Date: 10	/30/2023	Ş	SeqNo: 36	699714	Units: <b>mg/K</b>	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-Brom	nofluorobenzene	0.90		1.000		89.9	39.1	146			
Sample ID:	lcs-78421	Samp	Гуре: <b>LC</b>	S	TestCode: EPA Method 8021B: Volatiles						
Client ID:	LCSS	Batc	h ID: <b>78</b> 4	<b>421</b>	RunNo: 100865						
Prep Date:	10/27/2023	Analysis [	Date: 10	/31/2023	Ş	SeqNo: 37	700798	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.79	0.025	1.000	0	79.4	70	130			
Toluene		0.81	0.050	1.000	0	81.2	70	130			
Ethylbenzene		0.84	0.050	1.000	0	83.6	70	130			
Xylenes, Total		2.5	0.10	3.000	0	82.9	70	130			
Surr: 4-Brom	nofluorobenzene	0.94		1.000		93.6	39.1	146			
Sample ID:	mb-78421	Samp	Гуре: МЕ	BLK	Tes	stCode: EF	PA Method	8021B: Volati	iles		
Client ID:	PBS	Batc	h ID: <b>78</b> 4	<b>1</b> 21	F	RunNo: <b>1(</b>	00865				
Prep Date:	10/27/2023	Analysis [	Date: 10	/31/2023	S	SeqNo: 37	700799	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-Brom	nofluorobenzene	0.94		1.000		94.2	39.1	146			

#### 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

WO#:	2310B59

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-3975	4901 Hawkins NE querque. NM 87109	San	nple Log-In Ch	eck List
Client Name: HILCORP ENERGY	Work Order Number:	2310B59		RcptNo: 1	
Received By: Tracy Casarrubias 1	0/25/2023 7:10:00 AM	i			
Completed By: Tracy Casarrubias 1 Reviewed By:	0/25/2023 8:17:16 AN	I			
<u>Chain of Custody</u>		·			
1. Is Chain of Custody complete?		Yes	No 🗹	Not Present	
2. How was the sample delivered?		Courier			
Log In 3. Was an attempt made to cool the samples?		Yes ✔	No 🗌	NA 🗌	
5. Was an altempt made to cool the samples?		Yes 💌			
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌	
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗌		
6. Sufficient sample volume for indicated test(s)?		Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) properly p			No 🗌		
8. Was preservative added to bottles?			No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/4" for	or AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any sample containers received broken?		Yes	No 🔽	1	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🔽	No 🗌	# of preserved bottles checked for pH: (<2 or >1	12 unless noted)
12. Are matrices correctly identified on Chain of Cu	stody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌	19cm	11/25/23
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by:	10// 37 /
Special Handling (if applicable)					
15. Was client notified of all discrepancies with this	order?	Yes	No 📋	NA 🗹	
Person Notified:	Date:		and the second		
By Whom:	Via:	] eMail 🔲 Phone	e [] Fax	In Person	
Regarding:			and the second second	and the second second second second	
Client Instructions: Mailing address. pho	one number and Email/	Fax are missing or	n COC- TN	MC 10/25/23	
16. Additional remarks:					
		eal Date Sig	ned By		
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Mailing Address:	Iress:				incompo	0	4	4901 Hawkins NE	awkin	s NE	- Albu	duen	que, Ì	Albuquerque, NM 87109	60			
				Project #:				Tel. 50	5-345	505-345-3975	Ë	ax 50	5-34	Fax 505-345-4107				
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Released to Imaging: 2/26/2024 7:35:26 AM



Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

November 02, 2023

Stuart Hyde HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX:

RE: Seymour 6

OrderNo.: 2310B60

Dear Stuart Hyde:

Eurofins Environment Testing South Central, LLC received 2 sample(s) on 10/25/2023 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 do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Seymour 6

2310B60-001

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2310B60

Date Reported: 11/2/2023

Hall Environmental Anal	sis Laboratory, Inc.
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Client Sample ID: PH02@2.5' Collection Date: 10/24/2023 3:10:00 PM Received Date: 10/25/2023 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst: PRD
Diesel Range Organics (DRO)	1400	95		mg/Kg	10	10/31/2023 9:46:24 AM
Motor Oil Range Organics (MRO)	770	480		mg/Kg	10	10/31/2023 9:46:24 AM
Surr: DNOP	0	69-147	S	%Rec	10	10/31/2023 9:46:24 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	9.0	4.9		mg/Kg	1	10/31/2023 3:06:00 PM
Surr: BFB	193	15-244		%Rec	1	10/31/2023 3:06:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	10/31/2023 3:06:00 PM
Toluene	ND	0.049		mg/Kg	1	10/31/2023 3:06:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/31/2023 3:06:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	10/31/2023 3:06:00 PM
Surr: 4-Bromofluorobenzene	104	39.1-146		%Rec	1	10/31/2023 3:06:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	10/31/2023 1:12:57 PM

Matrix: SOIL

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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е J
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

\*

Seymour 6

2310B60-002

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2310B60

Date Reported: 11/2/2023

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: PH02@5' Collection Date: 10/24/2023 3:12:00 PM

Received Date: 10/25/2023 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	230	9.4	mg/Kg	1	11/1/2023 10:03:28 AM
Motor Oil Range Organics (MRO)	400	47	mg/Kg	1	11/1/2023 10:03:28 AM
Surr: DNOP	101	69-147	%Rec	1	11/1/2023 10:03:28 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/31/2023 3:27:00 PM
Surr: BFB	103	15-244	%Rec	1	10/31/2023 3:27:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	10/31/2023 3:27:00 PM
Toluene	ND	0.050	mg/Kg	1	10/31/2023 3:27:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/31/2023 3:27:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/31/2023 3:27:00 PM
Surr: 4-Bromofluorobenzene	88.1	39.1-146	%Rec	1	10/31/2023 3:27:00 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	10/31/2023 1:25:21 PM

Matrix: SOIL

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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value J
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

\*

Client: Project:	HILCO Seymou	RP ENERGY 1r 6								
Sample ID:	MB-78466	SampType:	MBLK	Tes	tCode: EPA Me	thod	300.0: Anions	;		
Client ID:	PBS	Batch ID:	78466	F	RunNo: <b>100869</b>					
Prep Date:	10/31/2023	Analysis Date:	10/31/2023	S	SeqNo: 370118	4	Units: mg/K	g		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC Low	Limit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5							
Sample ID:	LCS-78466	SampType:	LCS	Tes	tCode: EPA Me	thod	300.0: Anions	;		
Client ID:	LCSS	Batch ID:	78466	F	RunNo: <b>100869</b>					
Prep Date:	10/31/2023	Analysis Date:	10/31/2023	S	SeqNo: 370118	5	Units: mg/K	g		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC Low	Limit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5 15.00	0	98.6	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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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WO#: 2310B60 02-Nov-23

Client: HILCON Project: Seymou	RP ENERGY r 6								
Sample ID: LCS-78449	SampType: LC	-				8015M/D: Dies	sel Range	Organics	
Client ID: LCSS	Batch ID: 78	449	R	RunNo: 10	0863				
Prep Date: 10/30/2023	Analysis Date: 10	0/31/2023	S	SeqNo: 37	00786	Units: mg/Kg	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59 10	50.00	0	117	61.9	130			
Surr: DNOP	7.4	5.000		148	69	147			S
Sample ID: MB-78449	SampType: MI	BLK	Test	tCode: EP	A Method	8015M/D: Dies	sel Range	Organics	
Client ID: PBS	Batch ID: 78	449	R	RunNo: <b>10</b>	0863				
Prep Date: 10/30/2023	Analysis Date: 10	0/31/2023	S	SeqNo: 37	00789	Units: mg/K	g		
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	11	10.00		115	69	147			
Sample ID: LCS-78476	SampType: LC	s	Test	tCode: EP	A Method	8015M/D: Dies	sel Range	Organics	
Client ID: LCSS	Batch ID: 78	476	R	RunNo: <b>10</b>	0868				
Prep Date: 10/31/2023	Analysis Date: 1	1/1/2023	S	SeqNo: 37	01935	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.0	5.000		120	69	147			
Sample ID: MB-78476	SampType: MI	BLK	Tes	tCode: EP	A Method	8015M/D: Dies	sel Range	Organics	
Client ID: PBS	Batch ID: 78	476	R	RunNo: <b>10</b>	0868				
Prep Date: 10/31/2023	Analysis Date: 1	1/1/2023	S	SeqNo: 37	01938	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12	10.00		119	69	147			

**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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Client: HILCOM Project: Seymour	RP ENERG r 6	Y								
Sample ID: Ics-78421	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	Batch	n ID: <b>78</b> 4	121	F	RunNo: <b>1(</b>	00865				
Prep Date: 10/27/2023	Analysis D	ate: 10	/31/2023	S	SeqNo: 37	700821	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.2	70	130			
Surr: BFB	2200		1000		221	15	244			
Sample ID: mb-78421	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	ine Range		
Client ID: PBS	Batch	n ID: <b>78</b> 4	121	F	RunNo: <b>1(</b>	00865				
Prep Date: 10/27/2023	Analysis D	)ate: 10	/31/2023	S	SeqNo: 37	700822	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		108	15	244			

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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WO#: 2310B60 02-Nov-23

Client: Project:	HILCORP Seymour 6	ENERG	Y								
Sample ID: Ics-78	421	Samp	Гуре: <b>LC</b>	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS		Batcl	h ID: <b>78</b> 4	421	F	RunNo: <b>1(</b>	00865				
Prep Date: 10/27	7/2023	Analysis E	Date: 10	/31/2023	S	SeqNo: 37	700798	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.79	0.025	1.000	0	79.4	70	130			
Toluene		0.81	0.050	1.000	0	81.2	70	130			
Ethylbenzene		0.84	0.050	1.000	0	83.6	70	130			
Xylenes, Total		2.5	0.10	3.000	0	82.9	70	130			
Surr: 4-Bromofluorob	enzene	0.94		1.000		93.6	39.1	146			
Sample ID: mb-78	421	SampT	Гуре: <b>МЕ</b>	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS		Batcl	h ID: <b>78</b> 4	421	F	RunNo: <b>1(</b>	00865				
Prep Date: 10/27	7/2023	Analysis E	Date: 10	/31/2023	S	SeqNo: 37	700799	Units: <b>mg/K</b>	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-Bromofluorob	enzene	0.94		1.000		94.2	39.1	146			

**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
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL
- % Recovery outside of standard limits. If undiluted results may be estimated. S

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WO#:	2310B60

02-Nov-23

HALL ENVIRONMENTA ANALYSIS LABORATORY	TEL: 505-345-3	ntal Analysis Labora 4901 Hawkin. Albuquerque, NM 83 8975 FAX: 505-345 w.hallenvironmental.	s NE 7109 San 4107	Sample Log-In Check List							
Client Name: HILCORP I	ENERGY	Work Order Num	ber: 2310B60		RcptNo:	1					
Received By: Tracy Cas	arrubias	10/25/2023 7:10:00	) AM								
Completed By: Tracy Cas	arrubias	10/25/2023 8:24:44	1 AM								
Reviewed By:	5-23										
Chain of Custody											
1. Is Chain of Custody comp	lete?		Yes 🗌	No 🗹	Not Present						
2. How was the sample deliv	rered?		Courier								
Log In 3. Was an attempt made to c	cool the samples	?	Yes 🗹	No 🗌	NA 🗌						
4. Were all samples received	at a temperatur	e of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗌						
5. Sample(s) in proper contain	iner(s)?		Yes 🗹	No 🗌							
6. Sufficient sample volume f	or indicated test	(s)?	Yes 🔽	No 🗌							
7. Are samples (except VOA	and ONG) prope	erly preserved?	Yes 🗹	No 🗌							
8. Was preservative added to	bottles?		Yes	No 🗹	NA 🗌						
9. Received at least 1 vial wit	h headspace <1.	/4" for AQ VOA?	Yes	No 🗌	NA 🔽						
10. Were any sample containe	ers received brok	ken?	Yes	No 🔽		1					
11. Does paperwork match bo (Note discrepancies on cha			Yes 🔽	No 🗌	# of preserved bottles checked for pH:	12 unless noted)					
12. Are matrices correctly iden		f Custodv?	Yes 🔽	No 🗌	Adjusted?						
13. Is it clear what analyses we			Yes 🗹	No 🗌	1	· · · · · · / 07					
14. Were all holding times able (If no, notify customer for a	e to be met?		Yes 🔽	No 🗌	Checked by:	SCM 10/25/27					
Special Handling (if app	olicable)										
15. Was client notified of all d	iscrepancies with	this order?	Yes	No 🗍	NA 🗹						
Person Notified: By Whom: Regarding:		Date Via:		hone 🗌 Fax	In Person						
	Mailing address	, phone number and E	mail/Fax are missin	iq on COC- TN	IC 10/25/23						
16. Additional remarks:											
17. <u>Cooler Information</u> Cooler No Temp °C 1 4.9		Seal Intact Seal No es Yogi	Seal Date	Signed By							

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Station Construction	Phone #:	:#: age:	□ Az Con □ Other_	DD (Type)	Time Matrix	2 1510 50:1	V 1512 1 PHO2 65'											Date: Time: Relinquished by:	Date: Time: Relinquished by:	X, samp
	4901 Hawkins NE - Albuqu Tel. 505-345-3975 Fax	Project #: 7e1 For 4901 Hawkins NE - 1e1. 505-345-3975	SS: 4901 Hawkins NE - 4901 Hawkins NE - 161. 505-345-3975 Tel. 505-345-3975 a: □ Level 4 (Full Validation) □ Level 4 (Full Validation)	4901 Hawkins NE         4901 Hawkins NE         4901 Hawkins NE         1       1         1	Metals     Metals     Metals       4901 Hawkins Ne     4901 Hawkins Ne       4901 Hawkins Ne     4901 Hawkins Ne       1     1       1	4901 Hawkins NF     4901 Hawkins NF       4901 Hawkins NF     1       4901 Hawk	4901 Hawkins NE     4901 Hawkins NE       4901 Hawkins NE     4901 Hawkins NE       7     7       7     1       8061 Peseticides/8062 PCB's     7       8061 Peseticides/8062 PCB's     8       8061 Peseticides/8063 PCB's     8       9     9<	4901 Hawkins NE     4901 Hawkins NE       1     1 <td>4901 Hawkins NE     4901 Hawkins NE       4901 Hawkins NE     7 hansger:       4901 Hawkins NE     8 hansger:       4901 Hawkins NE     1 hawkins NE       4901 Hawkins NE     1 hawkins       4901 Hawkins     2 hawkins       4901 Hawkins     2 hawkins       4901 Hawkins     2 hawkins</td> <td>Project #:     1     4901 Hawkins NE       4901 Hawkins NE     4901 Hawkins NE       1     Level 4 (Full Validation)       1     Az Compliance       1     Other       1     Other       1     Other       1     Other       1     Yes       1     Yes</td> <td>901 Hawkins NE     1     4901 Hawkins NE       1     Level 4 (Full Validation)     1     1       1     Level 4 (Full Validation)     1     1       1     Az Compliance     1     1       1     Az Compliance     1     1       1     1     1     1</td> <td>4901 Hawkins NE         Project #:         1       Level 4 (Full Validation)         Project Manager:       <math>\zeta_{1, w, r} + H_{\gamma} \ell</math>         1       Level 4 (Full Validation)         1       Dible:         1       Dible:     <td>Project #:     <math>1</math>     4901 Hawkins NE -       Project #:     <math>1</math> <math>1</math>       Project #:     <math>1</math> <math>1</math></td><td>901 Hawkins NE         1         1       1<td>4901 Hawkins NE       1<td>4901 Hawkins Nill     4901 Hawkins Nill       4901 Hawkins Nill     Project Manager:       7     7       7     7       8001 Hawkins Nill     2       8001 Hawkins Nill     2       901 Hawkins Nill     2       902 X     2       903 Hawkins Nill     2       904 Hawkins Nill     2       905 Hawkins     2       906 Hawkins     2       907 X     2       1</td><td>Project Manager:     1     4901 Hawkins Ni       A     2     1     4901 Hawkins Ni       Project Manager:     5     1     4901 Hawkins Ni       Project Manager:     5     1     1       Project Manager:     1     1     1       Propolation     1     1     1       Prover     1     1     1     1       Prover     1     1     1     1       Prov     1     <t< td=""><td>4001 Наикіля Nampler:     1     4001 Наикіля Namager:     4001 Наикіля Namager:       4001 Наикіля Nampler:     7     7     7       7     7     7     7     7       7     7     7     7     7       7     7     7     7     7       7     7     7     7     7       7     7     7     7     7       7     7     7     7     7       7     7     7     7     7       7     7     7     7     7       7     7     7     7     7       7     7     7     7     7       7     7     7     7     7</td><td>Project     Handler       <math>Project #</math>     1       <math>Project #</math>     1</td><td></td></t<></td></td></td></td>	4901 Hawkins NE     4901 Hawkins NE       4901 Hawkins NE     7 hansger:       4901 Hawkins NE     8 hansger:       4901 Hawkins NE     1 hawkins NE       4901 Hawkins NE     1 hawkins       4901 Hawkins     2 hawkins       4901 Hawkins     2 hawkins       4901 Hawkins     2 hawkins	Project #:     1     4901 Hawkins NE       4901 Hawkins NE     4901 Hawkins NE       1     Level 4 (Full Validation)       1     Az Compliance       1     Other       1     Other       1     Other       1     Other       1     Yes       1     Yes	901 Hawkins NE     1     4901 Hawkins NE       1     Level 4 (Full Validation)     1     1       1     Level 4 (Full Validation)     1     1       1     Az Compliance     1     1       1     Az Compliance     1     1       1     1     1     1	4901 Hawkins NE         Project #:         1       Level 4 (Full Validation)         Project Manager: $\zeta_{1, w, r} + H_{\gamma} \ell$ 1       Level 4 (Full Validation)         1       Dible:         1       Dible: <td>Project #:     <math>1</math>     4901 Hawkins NE - 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# APPENDIX B

Agency Correspondence

From: To:	<u>Velez, Nelson, EMNRD</u> Stuart Hyde: Adeloye, Abiodun A
Cc:	Mitch Killough; Bobby Spearman; Devin Hencmann; Eric Carroll; Bratcher, Michael, EMNRD
Subject:	Re: [EXTERNAL] nAPP2224144740 - Seymour 6 Sampling Notification
Date:	Tuesday, October 17, 2023 7:07:44 AM
Attachments:	image001.png image002.png image003.png image004.png Outlook-wwwyphdi.png

[ \*\*EXTERNAL EMAIL\*\*]

Good morning Stuart,

Thank you for the notice.

If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC or from an OCD pre-approved sampling plan. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

**Nelson Velez** • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/\_



From: Stuart Hyde <shyde@ensolum.com>
Sent: Monday, October 16, 2023 3:47 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Adeloye, Abiodun A
<aadeloye@blm.gov>
Cc: Mitch Killough <mkillough@hilcorp.com>; Bobby Spearman <bspearman@hilcorp.com>; Devin
Hencmann <dhencmann@ensolum.com>; Eric Carroll <ecarroll@ensolum.com>

Subject: [EXTERNAL] nAPP2224144740 - Seymour 6 Sampling Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

On behalf of Hilcorp Energy Company, Ensolum is submitting this sampling notification for the Seymour 6 site to be conducted on Thursday October 19 at 8 AM. The site is located at coordinates 36.8929138, -107.7552261. Please reach out with any questions. Thanks.



Stuart Hyde, LG Senior Geologist 970-903-1607 Ensolum, LLC in f Y

To:       Adeloye, Abiodun A; Stuart Hyde         Cc:       Devin Hencmann; bspearman@hilcorp.com; Mitch Killough; Zach My         Subject:       Re: [EXTERNAL] nAPP2224144740 - Seymour 6 Sampling Notification         Date:       Friday, September 8, 2023 10:32:25 AM         Attachments:       image001.png image002.png

[ \*\*EXTERNAL EMAIL\*\*]

Stuart,

Thank you for the notice. If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC or from an OCD pre-approved sampling plan. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

**Nelson Velez** • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/\_



From: Adeloye, Abiodun A <aadeloye@blm.gov>
Sent: Friday, September 8, 2023 10:28 AM
To: Stuart Hyde <shyde@ensolum.com>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Devin Hencmann <dhencmann@ensolum.com>; bspearman@hilcorp.com
<bspearman@hilcorp.com>; Mitch Killough <mkillough@hilcorp.com>; Zach Myers
<zmyers@ensolum.com>
Subject: RE: [EXTERNAL] nAPP2224144740 - Seymour 6 Sampling Notification

Thank you, Stuart. Hilcorp can proceed with the sampling if the BLM representative is not present at

the scheduled time. Please notify the BLM immediately if the schedule changed. Thank you.

Abiodun Adeloye (Emmanuel) Natural Resources Specialist (NRS) 6251 College Blvd., Suite A Farmington, NM 87402 Office: 505-564-7665 Mobile: 505-635-0984

From: Stuart Hyde <shyde@ensolum.com>
Sent: Friday, September 8, 2023 10:13 AM
To: Adeloye, Abiodun A <aadeloye@blm.gov>; Velez, Nelson, EMNRD
<Nelson.Velez@emnrd.nm.gov>
Cc: Devin Hencmann <dhencmann@ensolum.com>; bspearman@hilcorp.com; Mitch Killough
<mkillough@hilcorp.com>; Zach Myers <zmyers@ensolum.com>
Subject: [EXTERNAL] nAPP2224144740 - Seymour 6 Sampling Notification

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

On behalf of Hilcorp Energy Company, Ensolum is submitting this sampling notification for the Seymour 6 site on Wednesday September 13 starting at 9 AM. The site is located at coordinates 36.8929138, -107.7552261. Please reach out with any questions. Thanks.



Stuart Hyde, LG Senior Geologist 970-903-1607 Ensolum, LLC in f Y

## Mitch Killough

From:	Adeloye, Abiodun A <aadeloye@blm.gov></aadeloye@blm.gov>
Sent:	Friday, September 8, 2023 11:15 AM
То:	Mitch Killough
Subject:	RE: [EXTERNAL] nAPP2224144740 - Seymour 6 Sampling Notification

CAUTION: External sender. DO NOT open links or attachments from UNKNOWN senders.

Mitch, thank you so much. Hilcorp can proceed with work. Please include this email conversation with your final report. Let me know if you have any questions.

Abiodun Adeloye (Emmanuel) Natural Resources Specialist (NRS) 6251 College Blvd., Suite A Farmington, NM 87402 Office: 505-564-7665 Mobile: 505-635-0984

From: Mitch Killough <mkillough@hilcorp.com> Sent: Friday, September 8, 2023 8:29 AM To: Adeloye, Abiodun A <aadeloye@blm.gov> Subject: RE: [EXTERNAL] nAPP2224144740 - Seymour 6 Sampling Notification

Emmanuel,

FYI, the sundry submittal (SR, Other) is attached for the Seymour 6.

Thanks.

Mitch Killough Hilcorp Energy Company 713-757-5247 (Office) 281-851-2338 (Mobile)

From: Adeloye, Abiodun A <<u>aadeloye@blm.gov</u>> Sent: Thursday, September 7, 2023 12:31 PM To: Mitch Killough <<u>mkillough@hilcorp.com</u>> Subject: RE: [EXTERNAL] nAPP2224144740 - Seymour 6 Sampling Notification

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Sounds good, thanks!

Abiodun Adeloye (Emmanuel) Natural Resources Specialist (NRS) 6251 College Blvd., Suite A Farmington, NM 87402 Office: 505-564-7665 Mobile: 505-635-0984

From: Mitch Killough <<u>mkillough@hilcorp.com</u>> Sent: Thursday, September 7, 2023 11:11 AM To: Adeloye, Abiodun A <<u>aadeloye@blm.gov</u>> Subject: RE: [EXTERNAL] nAPP2224144740 - Seymour 6 Sampling Notification

Will do. I'll get this one in by tomorrow to your attention.

Mitch Killough Hilcorp Energy Company 713-757-5247 (Office) 281-851-2338 (Mobile)

From: Adeloye, Abiodun A <<u>aadeloye@blm.gov</u>> Sent: Thursday, September 7, 2023 9:08 AM To: Mitch Killough <<u>mkillough@hilcorp.com</u>> Subject: RE: [EXTERNAL] nAPP2224144740 - Seymour 6 Sampling Notification

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Hi, Mitch, yes please. The Sundry would type would be a SR one, and it would be accepted for a record purpose. This would cover the Hilcorp Energy if any of the BLM inspector shows up and ask if the BLM is or has authorized the work. Thank you.

Abiodun Adeloye (Emmanuel) Natural Resources Specialist (NRS) 6251 College Blvd., Suite A Farmington, NM 87402 Office: 505-564-7665 Mobile: 505-635-0984

From: Mitch Killough <<u>mkillough@hilcorp.com</u>> Sent: Thursday, September 7, 2023 7:38 AM To: Adeloye, Abiodun A <<u>aadeloye@blm.gov</u>> Subject: RE: [EXTERNAL] nAPP2224144740 - Seymour 6 Sampling Notification

Good morning Emmanuel. I am emailing you in regards to the on-going soil remedial work at the Seymour 6. The current sundry approval is under Sundry ID 2711349 (also attached). At this time, we are preparing to conduct additional excavation efforts on the pad, but we will have to move the below-grade tank (BGT) (refer to the attached pics) in order to excavate underneath it. This will also involve temporarily moving the tank aside (and containment wall) and disconnecting from flowlines. Once the excavation is complete, we will reset the containment, BGT, and reconnect in the exact same location. The BGT is on the pad.

At this time, we have already cleared T&E and cultural for the pad and adjacent stream segment. Before we move the BGT though, do you want this proposed action to be submitted via sundry for approval or are we already clear to do work on the pad?

Thanks.

Mitch Killough Hilcorp Energy Company 713-757-5247 (Office) 281-851-2338 (Mobile)

From: Adeloye, Abiodun A <<u>aadeloye@blm.gov</u>> Sent: Thursday, June 15, 2023 8:10 AM To: Stuart Hyde <<u>shyde@ensolum.com</u>>; Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>> Cc: Devin Hencmann <<u>dhencmann@ensolum.com</u>>; Bobby Spearman <<u>bspearman@hilcorp.com</u>>; Mitch Killough <<u>mkillough@hilcorp.com</u>> Subject: RE: [EXTERNAL] nAPP2224144740 - Seymour 6 Sampling Notification

CAUTION: External sender. DO NOT open links or attachments from UNKNOWN senders.

Hi, Stuart, Hilcorp can proceed with sampling if the BLM representative is not present on the date and time for the sampling. Please notify BLM immediately if anything changed. Thank you.

Abiodun Adeloye (Emmanuel) Natural Resources Specialist (NRS) 6251 College Blvd., Suite A Farmington, NM 87402 Office: 505-564-7665 Mobile: 505-635-0984

From: Stuart Hyde <<u>shyde@ensolum.com</u>> Sent: Wednesday, June 14, 2023 4:17 PM To: Adeloye, Abiodun A <<u>aadeloye@blm.gov</u>>; Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>> Cc: Devin Hencmann <<u>dhencmann@ensolum.com</u>>; <u>bspearman@hilcorp.com</u>; Mitch Killough <<u>mkillough@hilcorp.com</u>> Subject: [EXTERNAL] nAPP2224144740 - Seymour 6 Sampling Notification

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On behalf of Hilcorp Energy Company, Ensolum is submitting this sampling notification for the Seymour 6 site on Monday June 19, 2023, starting at 9 AM. The site is located at coordinates 36.8929138, -107.7552261. Please reach out with any questions. Thanks.



Stuart Hyde, LG Senior Geologist 970-903-1607 Ensolum, LLC in f The information contained in this email message is confidential and may be legally privileged and is intended only for the use of the individual or entity named above. If you are not an intended recipient or if you have received this message in error, you are hereby notified that any dissemination, distribution, or copy of this email is strictly prohibited. If you have received this message immediately notify us by return email or telephone if the sender's phone number is listed above, then promptly and permanently delete this message.

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From:	Stuart Hyde
То:	Adeloye, Abiodun A; Velez, Nelson, EMNRD
Cc:	Devin Hencmann; bspearman@hilcorp.com; Mitch Killough
Subject:	nAPP2224144740 - Seymour 6 Sampling Notification
Date:	Wednesday, June 14, 2023 4:17:00 PM
Attachments:	image001.png
	image002.png
	image003.png
	image004.png

On behalf of Hilcorp Energy Company, Ensolum is submitting this sampling notification for the Seymour 6 site on Monday June 19, 2023, starting at 9 AM. The site is located at coordinates 36.8929138, -107.7552261. Please reach out with any questions. Thanks.



Stuart Hyde, LG Senior Geologist 970-903-1607 Ensolum, LLC in f Y

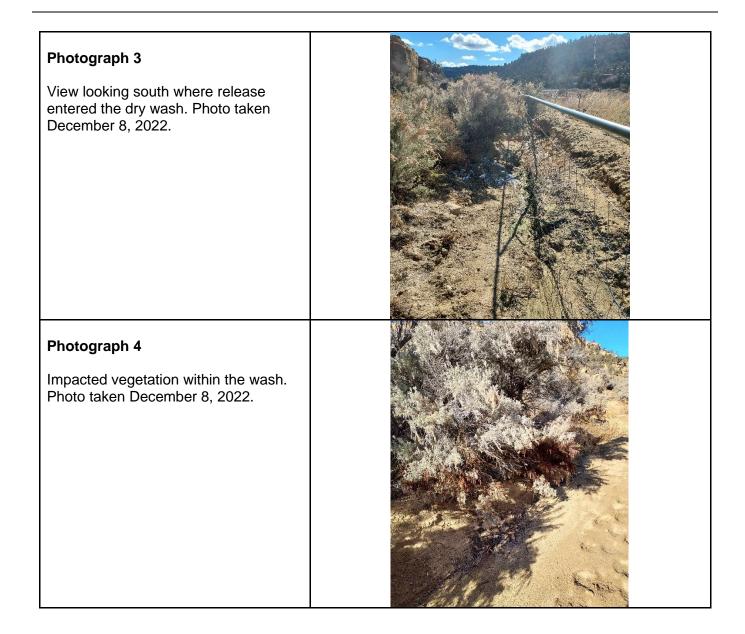


APPENDIX C

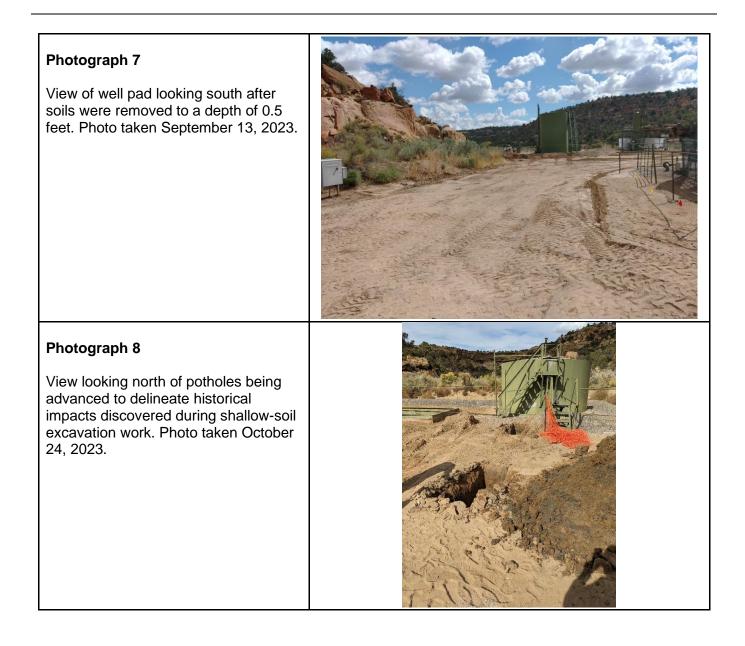
Site Photographs

Released to Imaging: 2/26/2024 7:35:26 AM

Photograph 1 View looking north at the impacted area on the well pad. Photo taken December 8, 2022.	<image/>
Photograph 2 View looking east at the eastern edge of the Seymour 6 well pad. Photo taken December 8, 2022.	







District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	287204
	Action Type:
	[C-141] Release Corrective Action (C-141)

## CONDITIONS

Created By Condition Condition Date Remediation update approved. Further delineation and remediation will be carried out in areas of SS03, SS15, SS01D and PH02. Since Hilcorp is requesting 2/26/2024 scwells 120 days to complete this work, remediation closure report is due to OCD by 6/25/2024.

CONDITIONS

Action 287204