MILAGRO GAS PLANT

RELEASE DELINEATION AND DEFERRAL REQUEST

JANUARY 16, 2020



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

State of New Mexico Energy Minerals and Natural Resources Department

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

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Page 2 of 59

Incident ID	NRM2210139687
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Harvest Four Corners, LLC	OGRID 37388
Contact Name: Monica Smith	Contact Telephone: (505) 632-4625
Contact email: msmith@harvestmidstream.com	Incident # (assigned by OCD)
Contact mailing address: 188 CR 4900, Bloomfield, NM 87413	

Location of Release Source

Latitude <u>36.735966</u>

Longitude <u>-107.841185</u>

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Milagro Gas Plant	Site Type: Gas Plant
Date Release Discovered: October 20, 2019	API# (if applicable)

Unit Letter	Section	Township	Range	County
0	12	29N	11W	San Juan

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)				
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)		
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)		
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No		
Condensate	Volume Released (bbls)	Volume Recovered (bbls)		
🛛 Natural Gas	Volume Released (Mcf): 252.7	Volume Recovered (Mcf)		
Other (describe)Volume/Weight Released (provide units): 8 bbls amine/water solution		Volume/Weight Recovered (provide units): 10 cy impacted soil		
Cause of Release: Milag	ro Plant had a plant upset 10/20/2019 in which the Fox	boro analog input card failed, which contained Train 3		
contactor level transmitter, without indication. This caused the loss of the liquid seal in the bottom of the contactor and sent inlet				
pressure, approximately 885 psig, to the amine flash tank which has two 6"x8" PSV's to atmosphere. There is another 4"x6" PSV, on				
the liquid leg, downstream of the flash tank but upstream of the control valve that also lifted. The liquid PSV discharges to atmosphere,				
but into an makeshift catch tank which is approximately 4' tall and 12' in diameter, with roughly a 4 ft hole cut in the top. The catch				
tank is of full of amine, but we have an estimated 8 barrels of 50% water and 50% amine that made it outside of the catch tank and onto				
the ground. Release stopped/ contained and facility placed back into services. No emergency personnel required.				

<i>Received by OCD: 1/18/2020</i>	12:00:44 AM
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Page 2

Incident ID	NRM2210139687
District RP	
Facility ID	
Application ID	

Page 2 of 50

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?		
release as defined by			
19.15.29.7(A) NMAC?			
🗌 Yes 🖾 No			
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?			
Immediate notification wa	as provided to Cory Smith via email by Monica Smith on October 20, 2019.		

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \square The source of the release has been stopped.

 \boxtimes The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have <u>not</u> been undertaken, explain why: Approximately 10 cubic yards of impacted soil were removed with hand tools from the release area. Further excavation is not feasible at this time due to access restraints and potential damage to onsite equipment related to the active gas plant. Delineation soil samples have been collected at the site and are further described in the attached report. A deferral is being requested for the impacted soil remaining on the property.

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name:Monica Smith	Title:EH&S Specialist
Signature:Monicasmat	Date:1/17/19
email:msmith@harvestmidstream.com	Telephone: (505) 632-4625
OCD Only	
Received by: <u>Ramona Marcus</u>	Date:

Received by OCD: 1/18/2020 12:00:44 AM Form C-141 State of New Mexico

Page 3

Oil Conservation Division

	Page 4 of 3	59
Incident ID	NRM2210139687	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>50-100</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🖂 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 1/18/2	2020 12:00:44 Mate of New Mexico			Page 5 of 59
			Incident ID	NRM2210139687
Page 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
I hereby certify that the in regulations all operators a public health or the enviro failed to adequately inves addition, OCD acceptance and/or regulations. Printed Name:Mod Signature:Mod email: msmith@har	Information given above is true and complete to the are required to report and/or file certain release notionment. The acceptance of a C-141 report by the Contact and remediate contamination that pose a three of a C-141 report does not relieve the operator of onica Smith Title:EH& CONTACT The context and the contact and	best of my knowledge ar ifications and perform co OCD does not relieve the eat to groundwater, surfa ³ responsibility for compl ² &S Specialist Date:1/17/202 Telephone: (50	nd understand that pursu rrective actions for rele operator of liability sho ce water, human health iance with any other fec 20 5) 632-4625	Lant to OCD rules and ases which may endanger puld their operations have or the environment. In deral, state, or local laws
Received by: <u>Ramo</u>	na Marcus	Date: <u>4/11/2</u>	022	

Received by OCD: 1/18/2020 12:00:44 AM Form C-141 State of New Mexico **Oil Conservation Division**

	Page	6	of	<u>59</u>
M2210139	687			

Incident ID	NRM2210139687
District RP	
Facility ID	
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Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan. Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

<u>Deferral Requests Only</u> : Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name:Monica Smith Title:EH&S Specialist
Signature: Monicas mit Date:1/17/2020
email:msmith@harvestmidstream.com Telephone: _(505) 632-4625
OCD Only
Received by: <u>Ramona Marcus</u> Date: <u>4/11/2022</u>
Approved in Approved with Attached Conditions of Approval Denied Deferral Approved
Signature: Nelson Velez Date: 05/18/2022

Page 5

LT Environmental, Inc.

848 East Second Avenue Durango, Colorado 81301 970.385.1096



January 16, 2020

Mr. Cory Smith New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410

RE: Release Delineation and Deferral Request Harvest Four Corners, LLC Milagro Gas Plant San Juan County, New Mexico

Dear Mr. Smith:

LT Environmental, Inc. (LTE), on behalf of Harvest Four Corners, LLC (Harvest), presents the following Release Delineation and Deferral Request (Request) detailing soil sampling and site delineation activities at the Milagro Gas Plant (Site). The Site is located in Section 12, Township 29 North, Range 11 West, in San Juan County, New Mexico (Figure 1). The purpose of the soil sampling and delineation activities was to confirm the presence or absence of impacts to soil following a release of amine/water solution at the Site. Based on field observations, field screening, and laboratory analytical results from soil sampling activities, Harvest is submitting this Deferral Request for the release at the Site.

RELEASE BACKGROUND

On October 20, 2019, a pipe seal failed, causing liquid amine/water solution to be discharged into an above ground relief tank that measures approximately 4 feet tall and 12 feet in diameter. With this discharge, the tank overflowed and caused approximately eight barrels (bbls) of amine/water solution to be released onto the ground within the gas plant onto structural fill and crushed aggregate. On October 21 and 22, 2019, Harvest personnel were able to use hand tools to remove the top two to four inches of impacted material (comprised of soil and gravel) with observable odors and/or staining. Approximately 10 cubic yards of material was removed and disposed of offsite at Industrial Ecosystems, Inc (IEI), located in Aztec, New Mexico.

Harvest reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on October 20, 2019. A Release Notification and Corrective Action Form C-141 (Form C-141) has been prepared for this release and is included with this report.





SITE DESCRIPTION AND CLOSURE CRITERIA

LTE characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be between 50 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of State Engineer (NMOSE) well SJ 03023, located approximately 3,430 feet southeast of the Site. The groundwater well has a depth to groundwater of approximately 65 feet bgs and a total depth of 90 feet bgs. Ground surface elevation at the groundwater well location is approximately 5,653 feet above mean sea level (amsl), which is approximately 55 feet lower in elevation than the Site. The average depth to groundwater in all permitted wells with documented depth to groundwater information and within one mile of the Site is 93 feet bgs.

The closest significant watercourse to the Site is an intermittent dry wash, and a first order tributary to Hare Canyon, located approximately 1,055 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is located in a low potential karst area. Figure 2 shows the Site in relation to the above potential receptors.

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

INITIAL SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

Harvest personnel removed the top two to four inches of impacted material immediately after the release occurred. Due to heavy density of existing above- and below-ground active infrastructure, as well as the composition of the subsurface material, soil removal was limited to manual removal with shovels. Figure 3 shows the general area of the Site impacted by the release. On October 25, 2019, LTE collected soil samples from the area of the release to assess the presence or absence of impacted soil following the initial hand-excavation activities. Due to





size of the impacted area, seven composite soil samples were collected from the excavated area (one composite sample from every approximately 200 square feet). All samples were collected using a hand shovel to a depth of approximately 0.5 feet bgs (below the original ground surface elevation). Figure 4 depicts the area of the release and the seven areas from which composite samples were collected.

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 shipped at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico for the following analysis:

- BTEX by United States Environmental Protection Agency (EPA) Method 8021B
- TPH-GRO, TPH-DRO, and TPH-motor oil range organics (MRO) by EPA Method 8015M/D
- Chloride anion by EPA Method 300.0
- pH by Method SM4500H+B / EPA9040C

Analytical results indicated that elevated TPH-DRO concentrations were present in all of the composite soil samples collected. Total TPH-GRO and TPH-DRO concentrations and TPH concentrations exceeded the Closure Criteria. The pH results ranged from 9.24 to 9.57 standard units. BTEX compounds and chloride concentrations were not detected in any of the composite soil samples above laboratory-reporting limits. Laboratory analytical reports and COC documentation for the initial soil samples are included as Attachment 1.

DELINEATION SOIL SAMPLING AND ANALYTICAL RESULTS

Based on the analytical results of the initial soil-sampling effort, LTE collected additional soil samples in November and December 2019 in order to vertically and laterally delineate residual soil impacts at the Site. Two locations, SS08 and SS09, were advanced within the excavation area to the maximum extent possible with a hand auger. Two soil samples were collected from each location, one at 0.25 feet bgs and one at 0.5 feet bgs (below the original ground surface elevation). In addition, soil samples were collected in each cardinal direction outside of the release footprint to delineate the lateral extent of impacted soil (locations SS10 through SS13). Two soil samples were collected at each location, one at 0.25 feet bgs and one at 0.75 feet bgs. Sampling locations are depicted on Figure 5. Field screening results and observations for each sample location were logged on lithologic/soil sampling logs, which are included in Attachment 2.

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 shipped at or below 4 °C under strict COC procedures to Hall in Albuquerque, New Mexico for TPH-DRO analysis. Laboratory analytical results indicate that TPH-DRO concentrations exceed the Closure Criteria in soil samples SS08 and SS09 at a depth of 0.25 feet. TPH-DRO was detected at SSS08 and SS09 in the soil samples collected at 0.5 feet bgs at concentrations below the NMOCD Closure Criteria. TPH-DRO was not detected above laboratory-reporting limits in any of the remaining soil samples collected during the delineation activities.

Laboratory analytical reports and COC documentation for the delineation soil samples also are included as Attachment 1. A photographic log from the sampling is included as Attachment 3.

DEFERRAL REQUEST

Following the release, Harvest initiated manual excavation efforts around active infrastructure and equipment. As much soil as possible was removed from the Site without disrupting active operations. Subsequent confirmation soil-sampling activities conducted by LTE indicated that impacted soil remains in a limited area at the Site at depths less than 0.5 feet bgs. Laboratory analytical results at soil sample locations SS10, SS11, SS12, and SS13 indicate that the lateral and vertical extent of the release have successfully been delineated. Vertical delineation was established at 0.5 feet bgs. Based on the aerial extent of the impact and delineation soil sampling results, approximately 60 cubic yards of impacted soil remain in place at the Site. The approximate extent of the release and area with remaining impacted soil is presented on Figure 5.

Based on the results presented in this report, LTE and Harvest do not believe deferment of the remaining impacted soil will result in imminent risk to human health, the environment, or groundwater. Specifically, imminent risk is not believed to be present at the Site because heavily impacted soil has been removed and disposed off-Site, depth to groundwater is greater than 50 feet bgs, and impacted soil remaining at the Site is at depths less than 0.5 feet. Additionally, based on the nature of the soil within this area of the Site (structural fill for equipment and machinery related to the gas plant operations) and the access restrictions presented by the gas plant equipment/machinery, further soil removal is not feasible at this time. In accordance with 19.15.29.12 C NMAC. (2), Harvest is proposing to leave in place approximately 60 cubic yards of impacted soil at the Site until facility closure and deconstruction. Accordingly, Harvest requests deferral of final remediation at the Site.





If you have any questions or comments, please do not hesitate to contact Ms. Brooke Herb at (970) 385-1096.

Sincerely,

LT ENVIRONMENTAL, INC.

Stuart Hyde, LG Project Geologist

Ashley L. Ager

Ashley L. Ager, P.G. Senior Geologist

cc: Monica Smith, Harvest Four Corners, LLC

Attachments:

- Figure 1 Site Location Map
- Figure 2 Receptor Map
- Figure 3 Site Map
- Figure 4 Composite Soil Sampling Areas (10/25/2019)
- Figure 5 Delineation Soil Sample Locations
- Table 1Soil Analytical Results
- Attachment 1 Laboratory Analytical Reports
- Attachment 2 Lithologic/Soil Sampling Logs
- Attachment 3 Photographic Log



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FIGURES





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TABLES



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TABLE 1 SOIL ANALYTICAL RESULTS

AMINE RELEASE AT MILAGRO GAS PLANT SAN JUAN COUNTY, NEW MEXICO HARVEST FOUR CORNERS, LLC

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)	рН
Initial Compo	osite-Soil Sam	nples												
SS01	0.5	10/25/2019	< 0.024	<0.048	< 0.048	< 0.096	< 0.096	<4.8	4,200	<2,100	4,200	4,200	<60	9.24
SS02	0.5	10/25/2019	< 0.023	< 0.046	< 0.046	< 0.093	<0.093	<4.6	5,300	<2,300	5,300	5,300	<60	9.32
SS03	0.5	10/25/2019	<0.025	< 0.049	< 0.049	< 0.099	<0.099	<4.9	5,100	<2,300	5,100	5,100	<60	9.57
SS04	0.5	10/25/2019	<0.023	< 0.046	< 0.046	< 0.092	< 0.092	<4.6	8,700	<2,100	8,700	8,700	<60	9.34
SS05	0.5	10/25/2019	<0.025	<0.050	< 0.050	<0.10	<0.10	<5.0	7,200	<2,300	7,200	7,200	<60	9.54
SS06	0.5	10/25/2019	< 0.024	< 0.049	< 0.049	< 0.097	< 0.097	<4.9	5,900	<2,200	5,900	5,900	<60	9.41
SS07	0.5	10/25/2019	< 0.023	< 0.046	< 0.046	< 0.092	< 0.092	<4.6	3,900	<2,300	3,900	3,900	<60	9.38
Delineation Soil Samples														
SS08@0.25'	0.25	11/21/2019	NT	NT	NT	NT	NT	<4.0	2,600	<430 D	2,600	2,600	NT	NT
SS08@0.5'	0.5	11/21/2019	NT	NT	NT	NT	NT	<4.1	870	<46	870	870	NT	NT
SS09@0.25'	0.25	12/9/2019	NT	NT	NT	NT	NT	NT	3,400	NT	3,400	NT	NT	NT
SS09@0.5'	0.5	12/9/2019	NT	NT	NT	NT	NT	NT	96	NT	96	NT	NT	NT
SS10@0.25'	0.25	12/9/2019	NT	NT	NT	NT	NT	NT	<7.9	NT	<7.9	NT	NT	NT
SS10@0.75'	0.75	12/9/2019	NT	NT	NT	NT	NT	NT	<8.5	NT	<8.5	NT	NT	NT
SS11@0.25'	0.25	12/9/2019	NT	NT	NT	NT	NT	NT	<7.4	NT	<7.4	NT	NT	NT
SS11@0.75'	0.75	12/9/2019	NT	NT	NT	NT	NT	NT	<9.5	NT	<9.5	NT	NT	NT
SS12@0.25'	0.25	12/9/2019	NT	NT	NT	NT	NT	NT	<8.9	NT	<8.9	NT	NT	NT
SS12@0.75'	0.75	12/9/2019	NT	NT	NT	NT	NT	NT	<9.3	NT	<9.3	NT	NT	NT
SS13@0.25'	0.25	12/9/2019	NT	NT	NT	NT	NT	NT	<9.5	NT	<9.5	NT	NT	NT
SS13@0.75'	0.75	12/9/2019	NT	NT	NT	NT	NT	NT	<9.4	NT	<9.4	NT	NT	NT
NMOCD Table	1 Closure Crit	eria	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	10,000	NE

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

- DRO diesel range organics
- GRO gasoline range organics
- MRO motor oil range organics

mg/kg - milligrams per kilogram NMAC - New Mexico Administrative Code NMOCD - New Mexico Oil Conservation Division NE - not established NT - not tested TPH - total petroleum hydrocarbons

Bold - indicates result exceeds the applicable regulatory standard

< - indicates result is below laboratory reporting limits

Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 August 2018



Received by OCD: 1/18/2020 12500244PAM





November 05, 2019

Monica Smith Harvest 1755 Arroyo Dr. Bloomfield, NM 87413 TEL: (505) 632-4475 FAX

RE: Milagro Amine Spill

OrderNo.: 1910E03

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Monica Smith:

Hall Environmental Analysis Laboratory received 7 sample(s) on 10/26/2019 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

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1910E03

Date Reported: 11/5/2019

CLIENT: Harvest			Cl	ient Sa	ample II): SS	01			
Project: Milagro An	nine Spill		(Collect	ion Date	e: 10	/25/2019 10:30:00 AM			
Lab ID: 1910E03-00	1	Matrix: SOIL		Recei	eceived Date: 10/26/2019 9:53:00 AN					
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0:	ANIONS						Analyst	CAS		
Chloride		ND	60		mg/Kg	20	10/30/2019 11:06:21 PM	/ 48493		
EPA METHOD 8015M	/D: DIESEL RANGE (ORGANICS					Analyst	BRM		
Diesel Range Organics	(DRO)	4200	420		mg/Kg	50	10/31/2019 7:26:24 PM	48457		
Motor Oil Range Organ	ics (MRO)	ND	2100	D	mg/Kg	50	10/31/2019 7:26:24 PM	48457		
Surr: DNOP		0	70-130	S	%Rec	50	10/31/2019 7:26:24 PM	48457		
EPA METHOD 8015D	: GASOLINE RANGE						Analyst	NSB		
Gasoline Range Organ	ics (GRO)	ND	4.8		mg/Kg	1	10/30/2019 2:11:16 PM	48446		
Surr: BFB		117	77.4-118		%Rec	1	10/30/2019 2:11:16 PM	48446		
EPA METHOD 8021B	: VOLATILES						Analyst	NSB		
Benzene		ND	0.024		mg/Kg	1	10/30/2019 2:11:16 PM	48446		
Toluene		ND	0.048		mg/Kg	1	10/30/2019 2:11:16 PM	48446		
Ethylbenzene		ND	0.048		mg/Kg	1	10/30/2019 2:11:16 PM	48446		
Xylenes, Total		ND	0.096		mg/Kg	1	10/30/2019 2:11:16 PM	48446		
Surr: 4-Bromofluorol	benzene	124	80-120	S	%Rec	1	10/30/2019 2:11:16 PM	48446		
SM4500H+B/EPA 904	OC						Analyst	JRR		
На		9.24			pH Units	s 1	11/1/2019 1:39:00 PM	R64162		

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

Qualifiers:

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 13

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1910E03

Date Reported: 11/5/2019

CLIENT: H	arvest		Cl	ient Sa	ample II): SS	502	
Project: M	lilagro Amine Spill		(Collect	tion Date	e: 10	/25/2019 10:32:00 AM	[
Lab ID: 19	1910E03-002	Matrix: SOIL		Recei	/26/2019 9:53:00 AM			
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHO	DD 300.0: ANIONS						Analyst	CAS
Chloride		ND	60		mg/Kg	20	10/30/2019 11:18:42 P	M 48493
EPA METHO	DD 8015M/D: DIESEL RAM	NGE ORGANICS					Analyst	BRM
Diesel Rang	e Organics (DRO)	5300	450		mg/Kg	50	10/31/2019 7:50:23 PM	48457
Motor Oil Ra	ange Organics (MRO)	ND	2300	D	mg/Kg	50	10/31/2019 7:50:23 PM	48457
Surr: DN	OP	0	70-130	S	%Rec	50	10/31/2019 7:50:23 PN	48457
EPA METHO	DD 8015D: GASOLINE RA	NGE					Analyst	: NSB
Gasoline Ra	ange Organics (GRO)	ND	4.6		mg/Kg	1	10/30/2019 3:21:41 PN	48446
Surr: BFE	3	107	77.4-118		%Rec	1	10/30/2019 3:21:41 PN	48446
EPA METHO	DD 8021B: VOLATILES						Analyst	: NSB
Benzene		ND	0.023		mg/Kg	1	10/30/2019 3:21:41 PM	48446
Toluene		ND	0.046		mg/Kg	1	10/30/2019 3:21:41 PN	48446
Ethylbenzer	ne	ND	0.046		mg/Kg	1	10/30/2019 3:21:41 PN	48446
Xylenes, To	tal	ND	0.093		mg/Kg	1	10/30/2019 3:21:41 PN	48446
Surr: 4-B	romofluorobenzene	114	80-120		%Rec	1	10/30/2019 3:21:41 PN	48446
SM4500H+E	8/EPA 9040C						Analyst	JRR
pΗ		9.32			pH Units	s 1	11/1/2019 1:39:00 PM	R64162

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

Qualifiers:

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 13

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1910E03

Date Reported: 11/5/2019

CLIENT:	Harvest		Cl	ient Sa	ample ID): SS	03				
Project:	Milagro Amine Spill		(Collect	ion Date	: 10	/25/2019 10:35:00 AM				
Lab ID:	1910E03-003	Matrix: SOIL		Received Date: 10/26/2019 9:53:00 A							
Analyses	3	Result	RL	Qual	Units	DF	Date Analyzed	Batch			
EPA ME	THOD 300.0: ANIONS						Analyst	CAS			
Chloride	1	ND	60		mg/Kg	20	10/30/2019 11:31:02 PM	A 48493			
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS					Analyst	BRM			
Diesel R	ange Organics (DRO)	5100	450		mg/Kg	50	10/31/2019 8:14:25 PM	48457			
Motor O	il Range Organics (MRO)	ND	2300	D	mg/Kg	50	10/31/2019 8:14:25 PM	48457			
Surr:	DNOP	0	70-130	S	%Rec	50	10/31/2019 8:14:25 PM	48457			
EPA ME	THOD 8015D: GASOLINE RA	ANGE					Analyst	NSB			
Gasoline	e Range Organics (GRO)	ND	4.9		mg/Kg	1	10/30/2019 3:45:08 PM	48446			
Surr:	BFB	98.0	77.4-118		%Rec	1	10/30/2019 3:45:08 PM	48446			
EPA ME	THOD 8021B: VOLATILES						Analyst	NSB			
Benzene	9	ND	0.025		mg/Kg	1	10/30/2019 3:45:08 PM	48446			
Toluene		ND	0.049		mg/Kg	1	10/30/2019 3:45:08 PM	48446			
Ethylber	izene	ND	0.049		mg/Kg	1	10/30/2019 3:45:08 PM	48446			
Xylenes	, Total	ND	0.099		mg/Kg	1	10/30/2019 3:45:08 PM	48446			
Surr:	4-Bromofluorobenzene	103	80-120		%Rec	1	10/30/2019 3:45:08 PM	48446			
SM4500H	H+B/EPA 9040C						Analyst	JRR			
рH		9.57			pH Units	5 1	11/1/2019 1:39:00 PM	R64162			

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

Qualifiers:

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 13

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1910E03

Date Reported: 11/5/2019

CLIENT:	Harvest		Cl	ient Sa	ample ID	:SS	04	
Project:	Milagro Amine Spill		(Collect	ion Date	: 10	/25/2019 10:40:00 AM	
Lab ID:	1910E03-004	Matrix: SOIL		/26/2019 9:53:00 AM				
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS						Analyst	CAS
Chloride		ND	60		mg/Kg	20	10/30/2019 11:43:23 PI	/ 48493
	THOD 8015M/D: DIESEL RA	NGE ORGANICS					Analyst	BRM
Diesel R	ange Organics (DRO)	8700	430		mg/Kg	50	10/31/2019 8:38:19 PM	48457
Motor O	il Range Organics (MRO)	ND	2100	D	mg/Kg	50	10/31/2019 8:38:19 PM	48457
Surr:	DNOP	0	70-130	S	%Rec	50	10/31/2019 8:38:19 PM	48457
EPA ME	THOD 8015D: GASOLINE RA	NGE					Analyst	NSB
Gasoline	e Range Organics (GRO)	ND	4.6		mg/Kg	1	10/30/2019 4:08:27 PM	48446
Surr:	BFB	106	77.4-118		%Rec	1	10/30/2019 4:08:27 PM	48446
	THOD 8021B: VOLATILES						Analyst	NSB
Benzene	9	ND	0.023		mg/Kg	1	10/30/2019 4:08:27 PM	48446
Toluene		ND	0.046		mg/Kg	1	10/30/2019 4:08:27 PM	48446
Ethylber	izene	ND	0.046		mg/Kg	1	10/30/2019 4:08:27 PM	48446
Xylenes,	Total	ND	0.092		mg/Kg	1	10/30/2019 4:08:27 PM	48446
Surr:	4-Bromofluorobenzene	112	80-120		%Rec	1	10/30/2019 4:08:27 PM	48446
SM4500H	I+B/EPA 9040C						Analyst	JRR
pН		9.34			pH Units	; 1	11/1/2019 1:39:00 PM	R64162

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

Qualifiers:

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 13

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1910E03

Date Reported: 11/5/2019

CLIENT:	Harvest		Cl	ient Sa	ample ID	:SS	05	
Project:	Milagro Amine Spill		(Collect	ion Date	: 10	/25/2019 10:45:00 AM	
Lab ID:	1910E03-005	Matrix: SOIL						
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS						Analyst	MRA
Chloride		ND	60		mg/Kg	20	10/31/2019 11:55:43 AM	/ 48509
EPA MET	THOD 8015M/D: DIESEL RAM	IGE ORGANICS					Analyst	BRM
Diesel R	ange Organics (DRO)	7200	460		mg/Kg	50	10/31/2019 9:02:20 PM	48457
Motor Oi	il Range Organics (MRO)	ND	2300	D	mg/Kg	50	10/31/2019 9:02:20 PM	48457
Surr: I	DNOP	0	70-130	S	%Rec	50	10/31/2019 9:02:20 PM	48457
EPA MET	THOD 8015D: GASOLINE RA	NGE					Analyst	NSB
Gasoline	e Range Organics (GRO)	ND	5.0		mg/Kg	1	10/30/2019 4:31:50 PM	48446
Surr: I	BFB	106	77.4-118		%Rec	1	10/30/2019 4:31:50 PM	48446
EPA MET	THOD 8021B: VOLATILES						Analyst	NSB
Benzene	9	ND	0.025		mg/Kg	1	10/30/2019 4:31:50 PM	48446
Toluene		ND	0.050		mg/Kg	1	10/30/2019 4:31:50 PM	48446
Ethylben	zene	ND	0.050		mg/Kg	1	10/30/2019 4:31:50 PM	48446
Xylenes,	Total	ND	0.10		mg/Kg	1	10/30/2019 4:31:50 PM	48446
Surr: 4	4-Bromofluorobenzene	111	80-120		%Rec	1	10/30/2019 4:31:50 PM	48446
SM4500H	I+B/EPA 9040C						Analyst	JRR
pН		9.54			pH Units	; 1	11/1/2019 1:39:00 PM	R64162

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

Qualifiers:

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 5 of 13

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1910E03

Date Reported: 11/5/2019

CLIENT:	Harvest		Cl	ient Sa	ample ID	:SS	06		
Project:	Milagro Amine Spill		(Collect	ion Date	: 10	/25/2019 10:47:00 AM	[
Lab ID:	1910E03-006	Matrix: SOIL		Recei	ved Date	: 10	/26/2019 9:53:00 AM		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch	
EPA MET	HOD 300.0: ANIONS						Analyst	MRA	
Chloride		ND	60		mg/Kg	20	10/31/2019 12:32:45 PI	M 48509	
EPA MET	HOD 8015M/D: DIESEL RAN	IGE ORGANICS					Analyst	BRM	
Diesel R	ange Organics (DRO)	5900	440		mg/Kg	50	10/31/2019 9:26:14 PM	48457	
Motor Oi	I Range Organics (MRO)	ND	2200	D	mg/Kg	50	10/31/2019 9:26:14 PM	48457	
Surr: I	ONOP	0	70-130	S	%Rec	50	10/31/2019 9:26:14 PM	48457	
EPA MET	HOD 8015D: GASOLINE RA	NGE					Analyst	: NSB	
Gasoline	Range Organics (GRO)	ND	4.9		mg/Kg	1	10/30/2019 4:55:25 PM	48446	
Surr: I	BFB	114	77.4-118		%Rec	1	10/30/2019 4:55:25 PM	48446	
EPA MET	HOD 8021B: VOLATILES						Analyst	: NSB	
Benzene		ND	0.024		mg/Kg	1	10/30/2019 4:55:25 PM	48446	
Toluene		ND	0.049		mg/Kg	1	10/30/2019 4:55:25 PM	48446	
Ethylben	zene	ND	0.049		mg/Kg	1	10/30/2019 4:55:25 PM	48446	
Xylenes,	Total	ND	0.097		mg/Kg	1	10/30/2019 4:55:25 PM	48446	
Surr: 4	4-Bromofluorobenzene	121	80-120	S	%Rec	1	10/30/2019 4:55:25 PM	48446	
SM4500H	I+B/EPA 9040C						Analyst	: JRR	
pН		9.41			pH Units	; 1	11/1/2019 1:39:00 PM	R64162	

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

Qualifiers:

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 6 of 13

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1910E03

Date Reported: 11/5/2019

CLIENT: Harvest		Cl	ient Sa	ample II): SS	607				
Project: Milagro Amine Spill		(Collect	- tion Date	e: 10	/25/2019 10:50:00 AM	[
Lab ID: 1910E03-007	Matrix: SOIL		Received Date: 10/26/2019 9:53:00 A							
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS						Analyst	MRA			
Chloride	ND	60		mg/Kg	20	10/31/2019 12:45:06 PI	M 48509			
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS					Analyst	BRM			
Diesel Range Organics (DRO)	3900	470		mg/Kg	50	11/4/2019 3:01:12 PM	48457			
Motor Oil Range Organics (MRO)	ND	2300	D	mg/Kg	50	11/4/2019 3:01:12 PM	48457			
Surr: DNOP	0	70-130	S	%Rec	50	11/4/2019 3:01:12 PM	48457			
EPA METHOD 8015D: GASOLINE R	ANGE					Analyst	: NSB			
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/30/2019 6:29:10 PM	48446			
Surr: BFB	116	77.4-118		%Rec	1	10/30/2019 6:29:10 PM	48446			
EPA METHOD 8021B: VOLATILES						Analyst	: NSB			
Benzene	ND	0.023		mg/Kg	1	10/30/2019 6:29:10 PM	48446			
Toluene	ND	0.046		mg/Kg	1	10/30/2019 6:29:10 PM	48446			
Ethylbenzene	ND	0.046		mg/Kg	1	10/30/2019 6:29:10 PM	48446			
Xylenes, Total	ND	0.092		mg/Kg	1	10/30/2019 6:29:10 PM	48446			
Surr: 4-Bromofluorobenzene	123	80-120	S	%Rec	1	10/30/2019 6:29:10 PM	48446			
SM4500H+B/EPA 9040C						Analyst	: JRR			
На	9.38			pH Units	s 1	11/1/2019 1:39:00 PM	R64162			

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

Qualifiers:

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 7 of 13

Client: Project:	Harvest Milagro A	Amine Spill							
Sample ID:	MB-48493	SampType: n	nblk	Test	tCode: EPA Met	thod 300.0: Anion	S		
Client ID:	PBS	Batch ID: 4	8493	R	unNo: 64105				
Prep Date:	10/30/2019	Analysis Date:	10/30/2019	S	eqNo: 2193433	B Units: mg/K	g		
Analyte Chloride		Result PQL ND 1.5	SPK value	SPK Ref Val	%REC LowL	imit HighLimit	%RPD	RPDLimit	Qual
Sample ID:	LCS-48493	SampType: Io	cs	Test	tCode: EPA Met	thod 300.0: Anion	s		
Client ID:	LCSS	Batch ID: 4	8493	R	unNo: 64105				
Prep Date:	10/30/2019	Analysis Date:	10/30/2019	S	eqNo: 2193434	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC LowL	imit HighLimit	%RPD	RPDLimit	Qual
Chloride		15 1.5	5 15.00	0	99.3	90 110			
Sample ID:	MB-48509	SampType: n	nblk	Test	tCode: EPA Met	thod 300.0: Anion	S		
Client ID:	PBS	Batch ID: 4	8509	R	unNo: 64117				
Prep Date:	10/31/2019	Analysis Date:	10/31/2019	S	eqNo: 2195081	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC LowL	.imit HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5	5						
Sample ID:	LCS-48509	SampType: Io	cs	Test	tCode: EPA Met	thod 300.0: Anion	S		
Client ID:	LCSS	Batch ID: 4	8509	R	RunNo: 64117				
Prep Date:	10/31/2019	Analysis Date:	10/31/2019	S	eqNo: 2195082	2 Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC LowL	imit HighLimit	%RPD	RPDLimit	Qual
Chloride		15 1.5	5 15.00	0	99.7	90 110			

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 13

1910E03

05-Nov-19

WO#:

Page	30	of 59
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WO#:	1910E03	3

05-Nov-19

Client:	Harvest										
Project:	Milagro A	Amine Spill									
Sample ID:	LCS-48457	SampTyp	e: LCS		Tes	tCode: E	PA Method	8015M/D: Die:	sel Range	e Organics	
Client ID:	LCSS	Batch ID): 48457		F	lunNo: 6	4089				
Prep Date:	10/29/2019	Analysis Date	e: 10/30	/2019	S	eqNo: 2	192645	Units: mg/Kg	I		
Analyte		Result F	PQL SF	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Surr: DNOP	Organics (DRO)	44 3.2	10	50.00 5.000	0	88.2 64.8	63.9 70	124 130			S
Sample ID:	MB-48457	SampTyp	e: MBLK		Tes	tCode: E	PA Method	8015M/D: Die:	sel Range	e Organics	
Client ID:	PBS	Batch ID): 48457		F	lunNo: 6	4089				
Prep Date:	10/29/2019	Analysis Date	e: 10/30	/2019	S	eqNo: 2	192646	Units: mg/Kg	I		
Analyte		Result F	PQL SF	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Motor Oil Rang Surr: DNOP	Organics (DRO) ge Organics (MRO)	ND ND 8.4	10 50	10.00		84.4	70	130			
Sample ID:	LCS-48458	SampTyp	e: LCS		Tes	tCode: E	PA Method	8015M/D: Die:	sel Range	e Organics	
Client ID:	LCSS	Batch ID): 48458		F	unNo: 6	4089				
Prep Date:	10/29/2019	Analysis Date	e: 10/31	/2019	S	SeqNo: 2	193220	Units: %Rec			
Analyte		Result F	PQL SF	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.6		5.000		91.2	70	130			
Sample ID:	LCS-48459	SampTyp	e: LCS		Tes	tCode: E	PA Method	8015M/D: Dies	sel Range	e Organics	
Client ID:	LCSS	Batch ID): 48459		F	unNo: 6	4089				
Prep Date:	10/29/2019	Analysis Date	e: 10/30	/2019	S	eqNo: 2	193221	Units: %Rec			
Analyte		Result F	PQL SF	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.4		5.000		87.0	70	130			
Sample ID:	MB-48458	SampTyp	e: MBLK		Tes	tCode: E	PA Method	8015M/D: Dies	sel Range	e Organics	
Client ID:	PBS	Batch ID): 48458		F	unNo: 6	4089				
Prep Date:	10/29/2019	Analysis Date	e: 10/31	/2019	5	eqNo: 2	193222	Units: %Rec			
Analyte		Result F	PQL SF	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		10		10.00		102	70	130			
Sample ID:	MB-48459	SampTyp	e: MBLK		Tes	tCode: E	PA Method	8015M/D: Dies	sel Range	e Organics	
Client ID:	PBS	Batch ID): 48459		F	lunNo: 6	4089				
Prep Date:	10/29/2019	Analysis Date	e: 10/30	/2019	S	eqNo: 2	193223	Units: %Rec			
Analyte		Result F	PQL SF	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.3		10.00		93.4	70	130			

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page	31	of	59
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WO#:	1910	E03

05-Nov-19

Client:	Harvest										
Project:	Milagro A	Amine Spill									
Sample ID:	MB-48446	SampTyp	e: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch I	D: 484	446	F	unNo: 64	4076				
Prep Date:	10/29/2019	Analysis Dat	e: 10)/30/2019	S	eqNo: 2	193023	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	5.0								
Surr: BFB		1000		1000		99.9	77.4	118			
Sample ID:	LCS-48446	SampTyp	be: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch I	D: 484	446	F	unNo: 64	4076				
Prep Date:	10/29/2019	Analysis Dat	e: 10)/30/2019	5	eqNo: 2	193024	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	23	5.0	25.00	0	91.5	80	120			
Surr: BFB		1100		1000		108	77.4	118			
Sample ID:	MB-48453	SampTyp	e: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch I	D: 484	453	F	unNo: 64	4076				
Prep Date:	10/29/2019	Analysis Dat	e: 10)/31/2019	S	eqNo: 2	193052	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1000		1000		100	77.4	118			
Sample ID:	LCS-48453	SampTyp	e: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch I	D: 484	453	F	unNo: 64	4076				
Prep Date:	10/29/2019	Analysis Dat	e: 10)/30/2019	S	eqNo: 2	193053	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1100		1000		109	77.4	118			

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 13

Page 32 of 59

WO#:	1910E03

05-Nov-19

Client: Project:	Harvest Milagro A	Amine Spi	11								
Completion		Comp]			T			0004D- Volet			
Sample ID:	MB-48446	Sampi	ype: ME		res			8021B: Volat	lies		
Client ID:	PBS	Batci	n ID: 484	446	F	RunNo: 6	4076				
Prep Date:	10/29/2019	Analysis D	Date: 10	/30/2019	5	SeqNo: 2	193064	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	a .	ND	0.10					(
Surr: 4-Brom	nofluorobenzene	1.1		1.000		106	80	120			
Sample ID:	LCS-48453	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	LCSS	Batcl	n ID: 484	453	F	RunNo: 6	4076				
Prep Date:	10/29/2019	Analysis D	Date: 10	/30/2019	S	SeqNo: 2	193065	Units: %Red	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	nofluorobenzene	1.0		1.000		105	80	120			
Sample ID:	1910E03-001AMS	SampT	уре: МS	5	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	SS01 Batch ID: 48446			F	RunNo: 6	4076					
Prep Date:	10/29/2019	Analysis E	Date: 10	/30/2019	S	SeqNo: 2	193068	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.90	0.023	0.9268	0	96.8	76	123			
Toluene		0.91	0.046	0.9268	0.009693	97.3	80.3	127			
Ethylbenzene		0.90	0.046	0.9268	0	96.8	80.2	131			
Xylenes, Total		2.7	0.093	2.780	0	97.4	78	133			
Surr: 4-Brom	nofluorobenzene	1.0		0.9268		111	80	120			
Sample ID:	1910E03-001AMS	D SampT	уре: МS	D	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	SS01	Batch	n ID: 484	446	F	RunNo: 6	4076				
Prep Date:	10/29/2019	Analysis D	Date: 10	/30/2019	S	SeqNo: 2	193070	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.92	0.024	0.9479	0	96.6	76	123	2.09	20	
Toluene		0.93	0.047	0.9479	0.009693	96.8	80.3	127	1.74	20	
Ethylbenzene		0.92	0.047	0.9479	0	97.4	80.2	131	2.93	20	
Xylenes, Total		2.8	0.095	2.844	0	98.5	78	133	3.29	20	
Surr: 4-Brom	nofluorobenzene	1.0		0.9479		109	80	120	0	0	
Sample ID:	MB-48453	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	PBS	Batcl	n ID: 484	453	F	RunNo: 6	4076				
Prep Date:	10/29/2019	Analysis D	Date: 10	/31/2019	S	SeqNo: 2	193088	Units: %Red	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

Client: E Project: M	larvest Iilagro Amine S	pill								
Sample ID: MB-4845	3 San	npType: MI	BLK	Test	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Ва	atch ID: 48	453	R	unNo: 64	4076				
Prep Date: 10/29/20	19 Analysi	s Date: 1	0/31/2019	S	eqNo: 2	193088	Units: %Red	•		
Analyte	Resul	t PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzo	ene 1.1		1.000		107	80	120			
Sample ID: LCS-4844	l6 San	npType: LC	s	Test	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Ba	atch ID: 48	446	R	unNo: 64	4076				
Prep Date: 10/29/20	19 Analysi	s Date: 1	0/30/2019	S	eqNo: 21	193181	Units: mg/K	g		
Analyte	Resul	t PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	99.2	80	120			
Toluene	1.0	0.050	1.000	0	99.6	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.1	80	120			
•										
Kylenes, Total	3.0	0.10	3.000	0	99.7	80	120			

Qualifiers:

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

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

1910E03

05-Nov-19

WO#:

Page 12 of 13

Client: Project:	Harvest Milagro A	Amine Spill									
Sample ID:	1910E03-002ADUF	• SampTyp	e: DI	JP	Test	Code: SI	M4500H+B/	EPA 9040C			
Client ID:	SS02	Batch II): R e	64162	R	unNo: 64	4162				
Prep Date:		Analysis Date	e: 1	1/1/2019	S	eqNo: 2	195425	Units: pH U	nits		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
рН		9.34									

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

1910E03

05-Nov-19

WO#:

ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345 Website: ww	4901 Hawk Albuquerque, NM 3975 FAX: 505-34 w.hallenvironment	cins NE 87109 5-4107 val.com	Sample Log-In Check List				
Client Name: Harvest	Work Order Num	ber: 1910E03		RcptNo:	1			
Received By: Yazmine Garduno 10)/26/2019 9:53:0	0 AM	rfazmin b	Inducto				
Completed By: Yazmine Garduno 10	/26/2019 11:24:4	46 AM	Aprinion 6	Shudeute				
Reviewed By:	0/25/19		U U	v				
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 complete								
c. the an attempt made to cool the samples?		Yes 💟	No	NA L				
4. Were all samples received at a temperature of >	0° C to 6.0°C	Yes 🔽	No					
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 pre	served?	Yes 🖌	No 🗌]				
8. Was preservative added to bottles?		Yes 🗌	No 🔽	NA 🗌				
9. VOA vials have zero headspace?		Yes 🗌	No [/			
10. Were any sample containers received broken?		Yes	No 🔽	# of preserved				
11. Does paperwork match bottle labels?		Yes 🔽	No 🗌	bottles checked for pH:				
(Note discrepancies on chain of custody)				(=2 or :	>12 unless noted)			
13. Is it clear what analyses were requested?	ody?	Yes 🗹	No L					
14. Were all holding times able to be met?		Yes 🔽	No L	Charles the N	10 101-20/10			
(If no, notify customer for authorization.)		Yes 💌	NO L	Checked by:	413 10/28/19			
Special Handling (if applicable)								
15. Was client notified of all discrepancies with this or	rder?	Yes 🗌	No 🗌) NA 🗹				
Person Notified:	Date							
By Whom:	Via:	🗌 eMail 🔲 F	Phone 🗌 Fa	ax 🗌 In Person				
Regarding:								
Client Instructions:				and the second				
16. Additional remarks:								
17. <u>Cooler Information</u>								
Cooler No Temp °C Condition Seal Int	act Seal No	Seal Date	Signed By					
1 2.2 Good		na an a	signed by	20111				

C	hain	-of-C	ustody Record	Turn-Around	Time:															Recei
Client:	Monie	in 5.	; th	Standard	d ⊓ Rush			Sec.		F			E							L
	H	ust.		Project Nam	e:	e strates and some southers's		line .		1		AL			> L	A	50	KA	101	< 19 0
Mailing	Address	: 1755	Arroup Dr	Mil	agro Amin	re Spill		40	01 -	lawk	www	v.ha ı⊨		iron	ment	tal.co	om M 87	100		CD: 1
		Bloom	Feld NM 87413	Project #:	907190	30	1		al 50	15-34	15-30	275	- 710 F	-av	505	345	1107	7		/18/
Phone	#: 50	5-632	-4625) 10 3190	/ 1				0-0-	10-00	A	naly	/sis	Req	uesi	3			2020
email c	or Fax#:	m Suni	th Charvestmidstream.cov	Project Man	ager: Shar	+ Hyde	Ê	Ô		-			04			nt)				125
QA/QC	Package:			CC em	a.l: shyd	e Clitenv.com	802	MR	B's		MS		4, S			bse				9024
Star	ndard	2.1.2.10	□ Level 4 (Full Validation)		bheib	C Itenv.com	3's (30/	PC		IIS0		PC			nt/A				ΦM
Accred	itation:	🗆 Az Co	ompliance	Sampler: 5	tuart H.	, de	IM	JD J	3082	4.1)	827		NO ₂			rese			10.90	M
	AC	□ Othe	r	On Ice:	Yes '	□ No	Т Ш	RO	es/8	504	0 or	als	3, 1		OA.	I) (Pi				
				Cooler Temp	O(including CF):	0 + 0.10 = 1.2	ATB	D)OS	sticid	thod	831	Meta	ž	(A)	V-im	form				
			A state of the second			109 22	12	8015	Pes	(Me	s by	A 8	'n	NON	(Se	Coli	7			
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	1910 ED3	BTE	TPH:	8081	EDB	PAHS	RCR.	CI, F,	8260	8270	Total	40			
10/25/10	1030	5	5501	2,402	0001	-001	X	X					X				×			
1	1032	Ĩ	5502	t see	1	-002	×	×					X				×		121240	
	1035		5503			-003	X	x				1 1	×			14	X			
	1040		5504			-664	×	X					×				×			
	1045		5505	1		-tts	X	×			211		×				×			
	(047		5506			-004	X	Х					×				×			
ł	1050	4	5507	*	+	-071	×	×					×		*		×			
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Date:	Time:	Relinquish	ied by:	Received by:	Via:	Date Time	Ren	nark	5:											
125/1C	1129 Time:	Relinquich	~ Shurt Ry &	/JUst	r Milte	1925/19 1129 Data Time														Pa
10/				V h o			hac	2												nge 3
125/14	11206	1/1	NWalt	MU	CUVITE	r 10/26/15 (pris))					-		an and	de la		in the	uel l	

Released to Imaging: 5/18/2022 2:15:05 PM



December 04, 2019

Stuart Hyde Harvest 1755 Arroyo Dr. Bloomfield, NM 87413 TEL: (505) 632-4475 FAX

RE: Milagro Amine Release

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

OrderNo.: 1911A76

Dear Stuart Hyde:

Hall Environmental Analysis Laboratory received 3 sample(s) on 11/22/2019 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

Surr: BFB

Hall Environmental Analy	sis Laboratory, I	lnc.				Analytical Report Lab Order 1911A76 Date Reported: 12/4/2	2019
CLIENT: Harvest		Cli	ient S	ample II	D: Co	mp A	
Project: Milagro Amine Release		(Collec	tion Dat	e: 11/	21/2019 1:00:00 PN	1
Lab ID: 1911A76-001	Matrix: SOIL		Recei	ived Dat	e: 11/	22/2019 8:43:00 AN	Ν
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAM	NGE ORGANICS					Analy	/st: BRM
Diesel Range Organics (DRO)	1500	97		mg/Kg	10	11/25/2019 12:27:43	PM 48997
Motor Oil Range Organics (MRO)	ND	490		mg/Kg	10	11/25/2019 12:27:43	PM 48997
Surr: DNOP	0	70-130	S	%Rec	10	11/25/2019 12:27:43	PM 48997
EPA METHOD 8015D: GASOLINE RA	NGE					Analy	/st: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	11/23/2019 2:32:25 A	AM 48965

102

77.4-118

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

%Rec

1

11/23/2019 2:32:25 AM 48965

RL Reporting Limit

Page 1 of 5

Gasoline Range Organics (GRO)

Surr: BFB

Hall Environmental Anal	ysis Laboratory, 1	Inc.			Analytical Report Lab Order 1911A76 Date Reported: 12/4/2	2019
CLIENT: Harvest		Clien	t Sample II	D: SS	508 @ 0.5'	
Project: Milagro Amine Release		Col	lection Dat	e: 11	/21/2019 1:05:00 PM	1
Lab ID: 1911A76-002	Matrix: SOIL	/22/2019 8:43:00 AM				
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analy	st: BRM
Diesel Range Organics (DRO)	870	9.2	mg/Kg	1	11/25/2019 11:37:41	AM 48997
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/25/2019 11:37:41	AM 48997
Surr: DNOP	101	70-130	%Rec	1	11/25/2019 11:37:41	AM 48997
EPA METHOD 8015D: GASOLINE R	ANGE				Analy	st: NSB

ND

103

4.1

77.4-118

mg/Kg

%Rec

1

1

11/23/2019 3:40:40 AM 48965

11/23/2019 3:40:40 AM 48965

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 5

EPA METHOD 8015D: GASOLINE RANGE

Gasoline Range Organics (GRO)

Surr: BFB

Analytical Report

Analyst: NSB

11/23/2019 4:03:25 AM 48965

11/23/2019 4:03:25 AM 48965

Hall E	nvironmental Analys	sis Laboratory, Ir	nc.				Lab Order 1911A76 Date Reported: 12/4/2	2019
CLIENT:	: Harvest		Cl	ient Sa	ample II	D: SS	08 @ 0.25'	
Project:	Milagro Amine Release		(Collect	tion Dat	e: 11/	/21/2019 1:08:00 PM	1
Lab ID:	1911A76-003	Matrix: SOIL		Recei	ved Dat	e: 11,	/22/2019 8:43:00 AN	1
Analyses	5	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA ME	THOD 8015M/D: DIESEL RAN	GE ORGANICS					Analy	st: BRM
Diesel R	Range Organics (DRO)	2600	86		mg/Kg	10	11/25/2019 12:36:48	PM 48997
Motor O	il Range Organics (MRO)	ND	430	D	mg/Kg	10	11/25/2019 12:36:48	PM 48997
Surr:	DNOP	0	70-130	S	%Rec	10	11/25/2019 12:36:48	PM 48997

ND

104

4.0

77.4-118

mg/Kg

%Rec

1

1

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 5

Client: Harvest Project: Milagro	Amine Rel	ease									
Sample ID: LCS-48997	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID: LCSS	Batch	n ID: 48	997	F	lunNo: 64	4745					
Prep Date: 11/25/2019	Analysis D	ate: 11	1/25/2019	S	eqNo: 22	218777	Units: mg/k	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	49	10	50.00	0	98.0	63.9	124				
Surr: DNOP	4.1		5.000		82.3	70	130				
Sample ID: MB-48997	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID: PBS	Batch	n ID: 48	997	F	unNo: 64	4745					
Prep Date: 11/25/2019	Analysis D	ate: 11	1/25/2019	S	eqNo: 22	218779	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	8.7		10.00		86.6	70	130				

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 5

1911A76

04-Dec-19

WO#:

Client: Harves Project: Milagr	st o Amine Rel	ease								
Sample ID: MB-48965	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	n ID: 489	965	F	RunNo: 64	4725				
Prep Date: 11/21/2019	Analysis D	ate: 11	/22/2019	S	SeqNo: 22	217895	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	1000		1000		101	77.4	118			
Sample ID: LCS-48965	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	n ID: 48	965	F	RunNo: 64	4725				
Prep Date: 11/21/2019	Analysis D)ate: 11	/22/2019	5	SeqNo: 22	217896	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	80	120			
Surr: BFB	1200		1000		115	77.4	118			

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

1911A76

04-Dec-19

WO#:

Client Name: Harvest	- Data - Az anticas - Az Menten - Data	manentinon	imental.con	7 1		
	Nork Order Numb	oer: 1911A	76		RcptNo: 1	
Received By: Yazmine Garduno 11	/22/2019 8:43:00	АМ		Yazmin lighteri	é	
Completed By: Yazmine Garduno 11/ Reviewed By: ENM l	122/2019 10:00:58 1/2.2/P	9 AM		rfazmire lighedest	6	
Chain of Custody						
1. Is Chain of Custody complete?		Yes		No 🗌	Not Present	
2. How was the sample delivered?		<u>Courie</u>	Ľ			
Log In					_	
3. Was an attempt made to cool the samples?		Yes		No		
4. Were all samples received at a temperature of >	0° C to 6.0°C	Yes 🛽		No 🗌		
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 pre	served?	Yes 🗸		No 🗌		
8. Was preservative added to bottles?		Yes		No 🔽	NA 🗌	
9. VOA vials have zero headspace?		Yes		No 🗌	No VOA Vials 🗹	
10. Were any sample containers received broken?		Yes 🗌		No 🔽	# of preserved bottles checked	
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 		Yes 🗸		No 🗌	for pH: (<2 or >12 unless noted)	
12. Are matrices correctly identified on Chain of Cust	ody?	Yes 🗸		No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🖌		No 🗌	n m	
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes 💆		No 🗌	Checked by:	12
Special Handling (if applicable)						19
15. Was client notified of all discrepancies with this c	order?	Yes		No 🗌	NA 🗹	
Person Notified:	Date	T	r na ana ang ang ang ang ang ang ang ang	faheraniin faheran da karan da kar		
By Whom:	Via:	eMail	Phor	ne 🗌 Fax	In Person	
Regarding:		17 (14) (14) (14) (14) (14) (14) (14) (14)				
IO. Additional remarks:						
17. <u>Cooler Information</u>						

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Page 1 of 1

Client: Mailing	Harr Harr Moni Address	-of-C Hest (a) \$1755	Ustody Record Four Corners Sundoval Avroyo Drive VM 87413	Turn-Around □ Standard Project Nam Mílagy Project #:	Turn-Around Time: □ Standard ■ Rush_TAT Project Name: Milagro Amine Release Project #: 090319039 Rroject Manager: Stuart Hyde					HA AN www. vkins -345-:	NE -	EI Ilenv Alb	NV SIS rironr ouque =ax	IF ment erqu 505-	CON AB tal.cor e, NM -345-4	IMI OR 1 8710 107	EN A T		L Y
Phone : email o QA/QC Ø Stan Accredi D NEL Date 1) 21) 9	#: 50 r Fax#: v Package: idard itation: AC 0 (Type) Time 13:00	Az C Othe PDF Matrix	IT- 1852 Ioval@havuestrni.dstream □ Level 4 (Full Validation) ompliance er Sample Name CompA SSO 8 € 0.5	Sampler: M On Ice: # of Coolers: Cooler Temp Container Type and # 2, 4 oz Javs	ager: Wart Wart Mary Mr Yes A Yes A Preservative Type COO I	Hyde djunov.ch 100 100 100 100 100 100 100 10	BTEX / MTBE / TMB's (8021)	<pre> </pre> <p< th=""><th>8081 Pesticides/8082 PCB's</th><th>PAHs by 8310 or 8270SIMS</th><th>RCRA 8 Metals</th><th>CI, F, Br, NO₃, NO₂, PO₄, SO₄</th><th>(XOA) 8260 (VOA)</th><th>X X 8270 (Semi-VOA)</th><th>Total Coliform (Present/Absent)</th><th></th><th></th><th></th><th></th></p<>	8081 Pesticides/8082 PCB's	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	(XOA) 8260 (VOA)	X X 8270 (Semi-VOA)	Total Coliform (Present/Absent)				
¥														_X					
Date: 1219 Date:	Time: 5 Time: 152	Relinquist May Refinquist	hed by: 2 Mullon hed by: Mullowat	Received by: Received by:	Via: Via: Via: CDUNEY	Date Time	Ren F P	narks lease nal	s: pe ha ysis, c	Id Ple c: k	rem ase oher	ainin let bC	ig k ite	San nov	ple com	for	fursh	ther AP.) +er

59



December 16, 2019

Stuart Hyde Harvest 1755 Arroyo Dr. Bloomfield, NM 87413 TEL: (505) 632-4475 FAX

RE: Milagro Amine Release

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

OrderNo.: 1912436

Dear Stuart Hyde:

Hall Environmental Analysis Laboratory received 10 sample(s) on 12/10/2019 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

Received	by	OCD:	1/18/2020	12500:44PAM
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Hall Enviror	nmental Analysis l	Laboratory,	Inc.			₽ I I	Analytical Report Lab Order: 1912436 Date Reported: 12/1	6/2019
CLIENT: Project:	Harvest Milagro Amine Release				I	.ab C)rder: 19124	436
Lab ID:	1912436-001		C	ollecti	on Date	: 12	/9/2019 10:36:00 .	AM
Client Sample ID:	: SS10@0.25'				Matrix	: SC	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch I
EPA METHOD 80)15M/D: DIESEL RANGE (ORGANICS					An	alyst: BRN
Diesel Range Org	anics (DRO)	ND	7.9		mg/Kg	1	12/13/2019 9:43:0	8 AM 4924
Surr: DNOP		96.8	70-130		%Rec	1	12/13/2019 9:43:0	8 AM 4924
Lab ID:	1912436-002		C	ollecti	on Date	: 12	/9/2019 10:41:00	AM
Client Sample ID:	: SS10@0.75'				Matrix	: SC	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch I
	15M/D. DIESEL RANGE (ORGANICS					An	alvst: BRN
Diesel Range Org	anics (DRO)	ND	8.5		mg/Kg	1	12/11/2019 9:06:2	4 PM 4924
Surr: DNOP		96.8	70-130		%Rec	1	12/11/2019 9:06:2	4 PM 4924
Lab ID:	1912436-003		C	ollecti	on Date	: 12	/9/2019 11:05:00	AM
Client Sample ID	: SS11@0.25'				Matrix	s: sc	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch I
EPA METHOD 80)15M/D: DIESEL RANGE (ORGANICS					An	alvst: BRN
Diesel Range Org	anics (DRO)	ND	7.4		mg/Kg	1	12/11/2019 9:30:1	8 PM 4924
Surr: DNOP		99.0	70-130		%Rec	1	12/11/2019 9:30:1	8 PM 4924
Lab ID:	1912436-004		C	ollecti	on Date	: 12	/9/2019 11:10:00	AM
Client Sample ID	: SS11@0.75'				Matrix	s: sc	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch I
EPA METHOD 80)15M/D: DIESEL RANGE (ORGANICS					An	alvst: BRN
Diesel Range Org	anics (DRO)	ND	9.5		mg/Kg	1	12/11/2019 3:16:5	0 PM 4926
Surr: DNOP	· · · ·	97.5	70-130		%Rec	1	12/11/2019 3:16:5	0 PM 4926

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

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

E Value above quantitation range

Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

J Analyte detected below quantit
 P Sample pH Not In Range

RL Reporting Limit

в

Page 1 of 5

Received by OCD: 1/18/2020 1	2500244PAM
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Hall Environ	mental Analysis I	_aboratory,	Inc.			I I	Analytical Report Lab Order: 1912436 Date Reported: 12/	16/2019	
CLIENT: I Project: I	Harvest Milagro Amine Release				L	ab C)rder: 1912	436	
Lab ID:	1912436-005		C	ollecti	on Date	: 12	/9/2019 10:13:00	AM	
Client Sample ID:	SS12@0.25				Matrix	: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch	ID
EPA METHOD 80 ²	15M/D: DIESEL RANGE C	RGANICS					An	alyst: BR I	М
Diesel Range Orga	anics (DRO)	ND	8.9		mg/Kg	1	12/11/2019 4:22:3	8 PM 492	:63
Surr: DNOP		95.9	70-130		%Rec	1	12/11/2019 4:22:3	8 PM 492	:63
Lab ID:	1912436-006		C	ollecti	on Date	: 12	/9/2019 10:27:00	AM	
Client Sample ID:	SS12@0.75				Matrix	s: sc	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch	ID
EPA METHOD 80 ⁷	15M/D: DIESEL RANGE C	RGANICS					An	alvst: BR I	м
Diesel Range Orga	anics (DRO)	ND	9.3		mg/Kg	1	12/11/2019 4:44:3	5 PM 492	263
Surr: DNOP	· · ·	96.5	70-130		%Rec	1	12/11/2019 4:44:3	5 PM 492	:63
Lab ID:	1912436-007		C	ollecti	on Date	: 12	/9/2019 11:15:00	AM	—
Client Sample ID:	SS13@0.25				Matrix	s: sc	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch	ID
FPA METHOD 80 ²	15M/D: DIESEL RANGE C	RGANICS					An	alvst: BRI	м
Diesel Range Orga	anics (DRO)	ND	9.5		mg/Kg	1	12/11/2019 5:06:3	7 PM 492	263
Surr: DNOP	, , , , , , , , , , , , , , , , , , ,	97.0	70-130		%Rec	1	12/11/2019 5:06:3	7 PM 492	:63
Lab ID:	1912436-008		C	ollecti	on Date	: 12	/9/2019 11:18:00	AM	
Client Sample ID:	SS13@0.75				Matrix	s: sc	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch	ID
	15M/D: DIESEL RANGE C	RGANICS					Δn	alvst: BR	м
Diesel Range Orga	anics (DRO)	ND	9.4		mg/Ka	1	12/11/2019 5:28:3	3 PM 492	263
Surr: DNOP	· · ·	96.2	70-130		%Rec	1	12/11/2019 5:28:3	3 PM 492	:63

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

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix в Analyte detected in the associated Method Blank Е Value above quantitation range

Analyte detected below quantitation limits

J

Sample pH Not In Range Р RL Reporting Limit

Page 2 of 5

Hall Environ	mental Analysis L	Inc.	Analytical Report Lab Order: 1912436 Date Reported: 12/16/2019						
CLIENT:	Harvest Milagro Amine Release				L	ab C)rder: 19124	436	
Lab ID:	1912436-009		C	Collecti	on Date	: 12	/9/2019 10:50:00	AM	
Client Sample ID:	SS09@0.25				Matrix	: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD 80	15M/D: DIESEL RANGE OF	RGANICS					An	alyst:	BRM
Diesel Range Orga Surr: DNOP	anics (DRO)	3400 0	98 70-130	S	mg/Kg %Rec	10 10	12/12/2019 7:15:0 12/12/2019 7:15:0	8 PM 8 PM	49315 49315
Lab ID:	1912436-010		C	Collecti	on Date	: 12	/9/2019 10:56:00	AM	
Client Sample ID:	SS09@0.5'				Matrix	: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD 80	15M/D: DIESEL RANGE OF	RGANICS					An	alyst:	BRM
Diesel Range Orga	anics (DRO)	96	9.7		mg/Kg	1	12/12/2019 7:37:0	6 PM	49315
Surr: DNOP		105	70-130		%Rec	1	12/12/2019 7:37:0	6 PM	49315

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

Qualifiers:

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

E Value above quantitation range

Analyte detected in the associated Method Blank

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

в

Page 3 of 5

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. Released to Imaging: 5/18/2022 2:15:05 PM

Client: Project:	Harvest Milagro A	Amine Relea	ise								
Sample ID:	LCS-49249	SampTy	e: LC	;s	Tes	tCode: E	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	LCSS	Batch I	D: 49	249	F	RunNo: 6	5093				
Prep Date:	12/10/2019	Analysis Dat	:e: 1:	2/11/2019	ę	SeqNo: 2	233725	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Surr: DNOP	Organics (DRO)	60 5.9	10	50.00 5.000	0	120 118	63.9 70	124 130			
Sample ID:	MB-49249	SampTy	e: MI	3LK	Tes	tCode: E	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	PBS	Batch I	D: 49	249	F	RunNo: 6	5093				
Prep Date:	12/10/2019	Analysis Dat	:e: 1:	2/11/2019	ę	SeqNo: 2	233726	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Surr: DNOP	Organics (DRO)	ND 14	10	10.00		136	70	130			S
Sample ID:	1912436-004AMS	SampTyp)e: M(3	Tes	tCode: E	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	SS11@0.75'	Batch I	D: 49	263	F	RunNo: 6	5091				
Prep Date:	12/10/2019	Analysis Dat	:e: 1:	2/11/2019	ç	SeqNo: 2	234553	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	41	9.4	46.82	0	86.7	57	142			
Surr: DNOP		4.4		4.682		93.4	70	130			
Sample ID:	1912436-004AMS) SampTyp)e: M\$	3D	Tes	tCode: E	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	SS11@0.75'	Batch I	D: 49	263	F	۲unNo: 6	5091				
Prep Date:	12/10/2019	Analysis Dat	.e: 1:	2/11/2019	ç	SeqNo: 2	234554	Units: mg/h	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	41	9.0	45.00	0	90.1	57	142	0.136	20	
Surr: DNOP	-	4.2		4.500		92.5	70	130	0	0	
Sample ID:	LCS-49263	SampTyp	e: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	LCSS	Batch I	D: 49	263	F	RunNo: 6	5091				
Prep Date:	12/10/2019	Analysis Dat	.e: 1:	2/11/2019	S	SeqNo: 2	234585	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	63	10	50.00	0	126	63.9	124			S
Surr: DNOP		6.0		5.000		119	70	130			
Sample ID:	MB-49263	SampTy	e: MI	3LK	Tes	tCode: E	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	PBS	Batch I	D: 49	263	F	RunNo: 6	5091				
Prep Date:	12/10/2019	Analysis Daf	:e: 1:	2/11/2019	S	SeqNo: 2	234586	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 5

1912436

16-Dec-19

WO#:

Page	50	of 59	
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ORI	WO#:	1912436	
alysis Laboratory, Inc.		16-Dec-19	

Client: Project:	Harvest Milagro A	Amine Rel	ease								
Sample ID:	MB-49263	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	PBS	Batch	n ID: 49 3	263	F	RunNo: 6	5091				
Prep Date:	12/10/2019	Analysis D)ate: 12	2/11/2019	S	SeqNo: 2	234586	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	ND	10								
Surr: DNOP		11		10.00		107	70	130			
Sample ID:	1912436-010AMS	SampT	ype: M ร	3	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	SS09@0.5'	Batch	ו ID: 49	315	F	RunNo: 6	5131				
Prep Date:	12/12/2019	Analysis D)ate: 12	2/12/2019	S	SeqNo: 22	235412	Units: mg/#	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	120	9.2	46.13	96.14	52.1	57	142			S
Surr: DNOP		4.4		4.613		94.6	70	130			
Sample ID:	1912436-010AMSE) SampT	ype: M	SD	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	SS09@0.5'	Batch	ו ID: 49	315	F	RunNo: 6	5131				
Prep Date:	12/12/2019	Analysis D	ate: 12	2/12/2019	S	SeqNo: 2	235414	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	150	9.8	49.02	96.14	102	57	142	19.4	20	
Surr: DNOP		4.7		4.902		96.7	70	130	0	0	
Sample ID:	LCS-49315	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	LCSS	Batch	ו ID: 49 :	315	F	RunNo: 6	5131				
Prep Date:	12/12/2019	Analysis D)ate: 12	2/12/2019	S	SeqNo: 22	235429	Units: mg/#	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	48	10	50.00	0	95.3	63.9	124			
Surr: DNOP		4.5		5.000		89.7	70	130			
Sample ID:	MB-49315	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	ו ID: 49	315	F	RunNo: 6	5131				
Prep Date:	12/12/2019	Analysis D)ate: 12	2/12/2019	S	SeqNo: 2	235430	Units: mg/#	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	ND	10								
Surr: DNOP		10		10.00		101	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

Page 5 of 5

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental And 4 Albuquu TEL: 505-345-3975 FA Website: www.hallen	alysis Labor 1901 Hawkin erque, NM & X: 505-345 wironmenta	ratory ns NE 87109 Sar -4107 1.com	Sample Log-In Check List		
Client Name: Harvest	Nork Order Number: 19	912436		ReptNo: 1		
Received By: Leah Baca 12	/10/2019 8:40:00 AM		Lab Bra	٩		
Completed By: Daniel Marquez 12 Reviewed By: YG 1210116	/10/2019 9:20:03 AM		5D			
Chain of Custody						
1. Is Chain of Custody sufficiently complete?	Ye	es 🗹	No 🗌	Not Present		
2. How was the sample delivered?	<u>C</u> (<u>ourier</u>				
Log In 3. Was an attempt made to cool the samples?	Ye	es 🔽	No 🗌	NA 🗌		
4. Were all samples received at a temperature of >	0° C to 6.0°C Ye	es 🗹	No 🗌	NA 🗀		
5. Sample(s) in proper container(s)?	Ye	es 🗹	No 🗌			
6. Sufficient sample volume for indicated test(s)?	Ye	s 🗹	No 🗌			
7. Are samples (except VOA and ONG) properly pre	served? Ye	s 🗹	No 🗌			
8. Was preservative added to bottles?	Ye	s 🗌	No 🗹	NA 🗌		
9. Received at least 1 vial with headspace <1/4" for	AQ VOA? Ye	s 🗍	No 🗌	NA 🗹		
10. Were any sample containers received broken?	Ye	es 🗌	No 🗹	# of preserved		
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Ye	s 🖌	No 🗌	bottles checked for pH: (<2 or >	2 unless noted)	
12. Are matrices correctly identified on Chain of Custo	ody? Ye	s 🔽	No 🗔	Adjusted?		
13. Is it clear what analyses were requested?	Ye	s 🗹	No 🗌			
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Ye	s 🗹	No 🗌	ehecked by:	JM 12/10/	
Special Handling (if applicable)						
15. Was client notified of all discrepancies with this o	rder? Ye	es 🗌	No 🗌	NA 🗹		
Person Notified:	Date:					
By Whom:	Via: 🗌 e	Mail 🔲 F	Phone 🔲 Fax	🔲 In Person		
Regarding: Client Instructions:	аналанан талан талан талан талан талан талак талар талар Талан талар тала					
16. Additional remarks:		*** /*		 VPPPLYMSter - S& orienteenteer and 		
17. <u>Cooler Information</u> Cooler No. 1 Temp 9C Condition	fact / Seal Na / Seal	Data 🖉	Signed By	1		
1 54 Good		Pare				

.

Page 1 of 1

Client: Haruczt Four Corners Monica Sandoval Mailing Address: 1755 Avroyo Drive Bloomfield, NM 87413 Phone #: 505 - 947 - 1852	IS 12/10/14 Turn-Around Time: Due to the second se					
email or Fax#: $m_{Sandoval@harvestmid stream.enQA/QC Package:Image: Image: I$	Project Manager: Struct Hyde Sampler: Mary Mrdjenov ch On Ice: Wary Mrdjenov ch On Ice: Mary Mrdjenov ch Mator Coolers (1) Cooler Temploduduce: Surve =					
Date: Time: Relinquished by: 1/9/17/12:75 Mwy Mutual Date: Time: Relinquished by:	Received by: Via: Date Time Remarks: DRD only Received by: Via: OD Date Time Please ici: Shyfee Itenv.com and Received by: Via: OD Date Time Please ici: Shyfee Itenv.com and Lech is accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the acceptical accept					

R		rolla Sandoual 110/19						
Chain-of-Custody Record	Turn-Around Time:							
Client: Harvest Four Corners	□ Standard	ANALYSIS LABORATOR						
Monica Sandoval	Project Name:	www.hallenvironmental.com						
Mailing Address: 1755 Arroyo Drive	Willing is minine Ferense	4901 Hawkins NE - Albuquerque, NM 87109						
Bloomfield, NM 87413	$\frac{\text{Project #:}}{\sqrt{2}}$	Tel. 505-345-3975 Fax 505-345-4107						
Phone #: 505 - 947 - 1852	01001103.	Analysis Request						
S email or Fax#: msandoral@haram.csmastream.c	Project Manager:	21) 21 (July 10 (S)						
QA/QC Package: Image: Constraint of the second s	Stuart Hyde	PO4, 80						
Accreditation: Az Compliance NELAC Other	Sampler: Marymodienalich On Ice: Ves Ino	/ TMB (04.1) (04.1) (04.1) (04.1) (04.1) (04.1) (04.1)						
☑ EDD (Type) <u>TPF</u>	# of Coolers: (r)							
	Cooler Temp(including CF): $\varsigma q = C \xi_1 = \varsigma . q C$ Container Preservative T9/2436 HEAL No. 77	TEX / M 9H:8015t 081 Pesti 091 Pesti						
Date Time Matrix Sample Name	Type and # Type							
12,911 10.50 5 \$509@0,25								
V 1036 3 5509 20.5	10000000							
	Annow was provided in the name of the name							
Date: Time: Relinquished by: 12/9119 Mar muferrovial	Received by: Via: Date Time R	Remarks: DRO only						
Date: Time: Relinquished by:	Received by: Via: Coure Date Time Lecha 12/10/19 0540	Thease (C. Shyde@Itenv.com and minudjenar.ch.@Itenv.com with results						
If necessary, samples submitted to Hall Environmental may be sub	contracted to other accredited laboratories. This serves as notice of this p	ossibility. Any sub-contracted data will be clearly notated on the analytical report.						

Received by OCD: 1/18/2020 12500244PAM

ATTACHMENT 2 LITHOLOGIC/SOIL SAMPLING LOG

MILAGRO GAS PLANT SAN JUAN COUNTY, NEW MEXICO HARVEST FOUR CORNERS, LLC

Sample Location	Sample ID	Date	Time	PID (ppm)	Depth (ft bgs)	Soil Description						
	5-Point Composite Excavation Confirmation Soil Samples											
SS01	SS01	10/25/2019	10:30	17.8	0.5	SILTY SAND, with gravel, moist, brown, no odor, no staining						
SS02	SS02	10/25/2019	10:32	12.5	0.5	SILTY SAND, with gravel, moist, brown, no odor, no staining						
SS03	SS03	10/25/2019	10:35	282.9	0.5	SILTY SAND, with gravel, moist, brown, slight chemical odor, no staining						
SS04	SS04	10/25/2019	10:40	144.7	0.5	SILTY SAND, with gravel, moist, brown, slight chemical odor, no staining						
SS05	SS05	10/25/2019	10:45	37.8	0.5	SILTY SAND, with gravel, moist, brown, no odor, no staining						
SS06	SS06	10/25/2019	10:47	15.2	0.5	SILTY SAND, with gravel, moist, brown, no odor, no staining						
SS07	SS07	10/25/2019	10:50	75.6	0.5	SILTY SAND, with gravel, moist, brown, slight chemical odor, no staining						
Discrete Delineation Soil Samples												
8022	SS08@0.25'	11/21/2019	13:05	0.0	0.25	SILTY SAND, with gravel, moist, brown, no odor, no staining						
3308	SS08@0.5'	11/21/2019	13:08	0.0	0.5	SILTY SAND, with gravel, moist, brown, no odor, no staining						
0022	SS09@0.25'	12/9/2019	10:50	0.9	0.25	SAND, with gravel, moist, brown, no odor, no staining						
3305	SS09@0.5'	12/9/2019	10:56	0.6	0.5	SILTY SAND, moist, gray, no odor, no staining						
\$\$10	SS10@0.25'	12/9/2019	10:36	0.0	0.25	SAND, with gravel, moist, brown, no odor, no staining						
3310	SS10@0.75'	12/9/2019	10:41	0.0	0.75	SILTY SAND, moist, gray-brown mottled, no odor, no staining						
\$\$11	SS11@0.25'	12/9/2019	11:05	0.0	0.25	SAND, with gravel, moist, brown, no odor, no staining						
3311	SS11@0.75'	12/9/2019	11:10	0.0	0.75	SILTY SAND, moist, gray, no odor, no staining						
\$\$12	SS12@0.25'	12/9/2019	10:13	0.6	0.25	SAND, with gravel, moist, brown, no odor, no staining						
3312	SS12@0.75'	12/9/2019	10:27	0.9	0.75	SILTY SAND, moist, gray, no odor, no staining						
CC12	SS13@0.25'	12/9/2019	11:15	0.7	0.25	SAND, with gravel, wet, brown, no odor, no staining						
3313	SS13@0.75'	12/9/2019	11:18	0.8	0.75	SILTY SAND, moist, gray-brown mottled, no odor, no staining						

Notes:

bgs- below ground surface ft- feet PID- photoionization detector ppm- parts per million



Received by OCD: 1/18/2020 12500244PAM

ATTACHMENT 3: PHOTOGRAPHIC LOG

. Released to Imaging: 5/18/2022 2:15:05 PM

PHOTOGRAPHIC LOG



Photograph 1: View looking West at relief tank where amine/water solution was released.



Photograph 2: View from southwest corner of the release area looking North.

Milagro Gas Plant San Juan County, New Mexico Photographs Taken: November 25, 2019

Page 1 of 2



PHOTOGRAPHIC LOG



Photograph 3: View from southeast corner of the release area looking North.



Photograph 4: View on North side of the relief tank looking West.

Milagro Gas Plant San Juan County, New Mexico Photographs Taken: November 25, 2019

Page 2 of 2



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:
Harvest Four Corners, LLC	373888
1111 Travis Street	Action Number:
Houston, TX 77002	3434
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral approved. Required to remediate & reclaim after decommissioning per 19.15.29.12C (2) & 19.15.29.13D (1).	5/18/2022

CONDITIONS

Action 3434