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

Contact Name Kijun Hong

Responsible Party Harvest Midstream Company

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NRM2027337168
District RP	
Facility ID	
Application ID	

# **Release Notification**

# **Responsible Party**

OGRID 373888

Contact Telephone 505-632-4475

Contact email khong@harvestmidstream.com			Iı	Incident # (assigned by OCD) NRM2027337168				
Contact mailing address 1755 Arroyo Dr., Bloomfield, NM 87413								
Location of Release Source								
Latitude 36.60968 Longitude -107.83648  (NAD 83 in decimal degrees to 5 decimal places)								
Site Name H	lanks 2 Pipe	eline		Si	Site Type Natural Gas Pipeline			
Date Release	Discovered	8/13/20		A	PI# (if app	pplicable)		
Unit Letter	Section 6	Township 27N	Range 9W	San .	Coun	ınty		
Surface Owner: State 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 Release	d (bbls)			Volume Recovered (bbls)		
Produced	Water	Volume Release	d (bbls)			Volume Recovered (bbls)		
	Is the concentration of total dissolved soli in the produced water >10,000 mg/l?				(TDS)	☐ Yes ☐ No		
X Condensa	te					Volume Recovered (bbls) <1		
X Natural Gas Volume Released (Mcf) 1					Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)			e units)		Volume/Weight Recovered (provide units)			
Cause of Rele	ease							
	15 5				(50)	. A leak occurred on the well tie line for the d by external corrosion and it has been repaired.		

# State of New Mexico Oil Conservation Division

Incident ID	NRM2027337168
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  X Yes No  If YES, was immediate no No immediate notice				
	Initial Dag	namaa		
The responsible p	Initial Res	ponse  nless they could create a safety hazard that would result in injury		
<ul><li>X Released materials ha</li><li>X All free liquids and re</li></ul>	s been secured to protect human health and the	es, absorbent pads, or other containment devices.		
has begun, please attach a	a narrative of actions to date. If remedial eff	ediation immediately after discovery of a release. If remediation orts have been successfully completed or if the release occurred use 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: Kijun Hor Signature: email: khong@harvestr		Title: Environmental Specialist  Date: 3/25/20  Celephone: 505-632-4475		
OCD Only				
Received by:	I	Date:		

# State of New Mexico Oil Conservation Division

Incident ID	NRM2027337168
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?	<50 (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?	X 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 X 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?	X 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 <b>not</b> on an exploration, development, production, or storage site?	☐ Yes X 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.					
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>Field data</li> <li>Data table of soil contaminant concentration data</li> <li>Depth to water determination</li> <li>Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>Boring or excavation logs</li> <li>Photographs including date and GIS information</li> </ul>					
Thotographs including date and Gib information					

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

# State of New Mexico Oil Conservation Division

Incident ID	NRM2027337168
District RP	
Facility ID	
Application ID	

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: Kijun Hong	Title: Environmental Specialist			
Signature:  email: khong@harvestmidstream.com	Date: 3/25/2021 Telephone: 505-632-4475			
OCD Only				
Received by:	Date:			

# State of New Mexico Oil Conservation Division

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

Incident ID	NRM2027337168
District RP	
Facility ID	
Application ID	

# Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC			
Note: Appropriate OCD District office must be notified 2 days prior to liner inspection)			
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)			
▼ Description of remediation activities			
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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.  Printed Name: Kijun Hong  Title: Environmental Specialist  Date: 3/as/aua			
OCD Only			
Received by: Date:			
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.			
Closure Approved by: Velson Velsz  Printed Name: Nelson Velez  Date: 11/02/2022  Environmental Specialist - Adv			
Closure Approved by: Velson Velsz  Printed Name: Nelson Velez  Date: 11/02/2022  Environmental Specialist - Adv			



March 26, 2021

Cory Smith
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos
Aztec, New Mexico 87410

Email: Cory.Smith@state.nm.us

RE: CLOSURE REPORT (REVISED)

Hanks 2 Pipeline Release NMOCD Incident No. NRM2027337168 NW¼ NW¼, Section 6, T27N, R9W San Juan County, New Mexico

Dear Mr. Smith:

Harvest Midstream Company (Harvest) completed an excavation clearance of a release at the Hanks 2 Pipeline location in October 2020. The release consisted of approximately 1 mcf of natural gas and less than one barrel (bbl) of condensate and was discovered on August 13, 2020. It is classified as a major release because it occurred at a pipeline crossing of an unnamed dry tributary arroyo of Armenta Wash. Harvest collected soil samples to confirm all impacted soils were removed. The excavation was then backfilled with clean soil, and all excavated soil was disposed of at an appropriate facility.

### TIMELINE:

- August 13, 2020: release discovered.
- September 25, 2020: Harvest notified NMOCD that it intended to conduct field sampling at Hanks 2 on September 28, 2020. NMOCD informed Harvest that they were unaware of a release at Hanks 2.
- September 28, 2020: C-141 Release Notification submitted. NMOCD rejected the C-141 because it was missing the first page.
- September 29, 2020: Harvest resubmitted the C-141 Release Notification with corrections.
- September 29, 2020: Harvest notified NMOCD of confirmation sampling on October 1, 2020.
- October 1, 2020: Harvest performed excavation and confirmation soil sampling.
- October 2, 2020: Harvest provided NMOCD with preliminary analytical results showing exceedances in the bottom soil

sample and requested permission to excavate further and re-sample on October 5, 2020.

- October 2, 2020: NMOCD notified Harvest that the re-submitted C-141 Release Notification did not identify the volume of the release.
- October 5, 2020: Harvest performed further excavation and confirmation soil resampling.
- October 7, 2020: Harvest received analytical results from October 5 sampling events showing soils below standards.
- October 15, 2020: C-141 Site Assessment Characterization and C-141 Closure submitted.
- January 19, 2021: C-141 Release Notification re-submitted January 19, 2021 (release volume added).
- February 23, 2021: C-141 rejected by NMOCD.

### 1.0 Site Information

### 1.1 Location

Site Name - Hanks 2 Pipeline

Legal Description – NW¼ NW¼, Section 6, T27N, R9W, San Juan County, New Mexico Release Latitude/Longitude – N36.60968, W107.83648

Land Jurisdiction – Bureau of Land Management

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Location Map

### 1.2 Release Information

On August 13, 2020, a third-party line leak survey discovered a line leak on the Hanks 2 pipeline at the well tie line for the Hargrave 1. Personnel blew down the pipeline and isolated the leak, which was caused by external corrosion. The site was excavated, and the pipe was replaced. The initial release was of approximately 1 Mcf of natural gas and less than one bbl of barrel condensate. Due to the proximity to a watercourse, the release was classified as "major".

# 2.0 Site Ranking

In accordance with NMAC 19.15.29.12 Table I (August 2018), release closure criteria are based on the minimum depth to groundwater within the horizontal extent of the release area:

- **Depth to Groundwater:** Cathodic reports could not be located for oil and gas wells within one-half mile. Depth to water records could not located for any wells within one-half mile. However, the site is within a wash that is a tributary of Armenta Canyon wash. Depth to groundwater is less than 50 ft bgs.
- Sensitive Receptor Determination: The release site is located within a small wash that is a tributary of Armenta Canyon wash. It is designated as a wetland by the National Wetlands Inventory.

### **NMOCD** Action levels are:

- 10 mg/kg benzene and 50 mg/kg total benzene, toluene, ethylbenzene, and xylene (BTEX);
- 100 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO);
- 600 mg/kg chloride.

# 3.0 Confirmation Soil Sampling

Notification of soil confirmation sampling was initially made to NMOCD on September 25, 2020, and subsequent notification of a change of sampling date was made on September 29, 2020. Project notifications are attached. Soil confirmation samples were collected by Harvest on October 1, 2020, including collection of six confirmation soil samples from the walls and base of the repair trench. A final composite sample was collected by Harvest on October 5, 2020, after additional soils were removed from the excavation base. The final excavation measured approximately 45 ft by 30 ft by 14 ft deep and included 400 cubic yards of overburden and contaminated soil. Harvest collected six 5-point composite samples including one from each side wall and two from the base.

Sample locations and final excavation extents are presented on Figure 3, and excavation progress is documented in the photograph log. 400 cubic yards of soil were disposed of at Envirotech Remediation Facility (Permit No. NM-01-0011) in Hilltop, New Mexico.

### 3.1 Field Data

On October 1, 2020, excavation composite benzene and volatile organic compound (VOC) readings were recorded at 80 ppm and 1107 ppm, respectively. Clearance of soil samples was achieved through laboratory analysis. Field notes from the October 1 and 5, 2020 field sampling and excavation are attached.

### 3.2 Laboratory Analyses

The samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto sample chain of custody records. The samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. All samples were laboratory analyzed for:

- BTEX per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- TPH as GRO, DRO, MRO per USEPA Method 8015M/D; and
- Chlorides per USEPA Method 300.0.

### 3.3 Laboratory Analytical Results

All laboratory analytical results indicated benzene, total BTEX, and chlorides in all samples were below applicable action levels. In contrast, TPH (as GRO, DRO, and MRO) results exceeded the action level of 100 mg/kg in one sample, Hanks 2 North Bottom, with 213 mg/kg. Additional soils were removed from the base of the excavation, and a subsequent sample at that location reported 20 mg/kg TPH. The laboratory analytical reports are attached.

### 4.0 Conclusions

Harvest completed an excavation clearance of petroleum hydrocarbon impacted soils at the Hanks 2 Pipeline in October 2020 resulting from a release reported on August 13, 2020. Laboratory analytical results reported final benzene, total BTEX, TPH (as GRO/DRO/MRO), and chloride concentrations as *below* applicable NMOCD action levels. No further action is recommended at this time.

If you have any questions about this report or site conditions, please do not hesitate to contact Elizabeth McNally at (505) 564-2281.

Sincerely,

David J. Reese

**Environmental Scientist** 

David of Reme

Elizabeth McNally, P.E.

Principal

### Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Location Map

light o Mindly

Figure 3. Excavation Area and Soil Sample Locations

Photograph Log

Excavation Log with Field Notes (October 1 and 5, 2020)

Hall Analytical Reports 2010109 and 2010212

NMOCD Site Assessment/Characterization Ranking

Sampling Notification—September 29, 2020

Cc:

Kijun Hong Harvest Midstream Company 1755 Arroyo Dr.

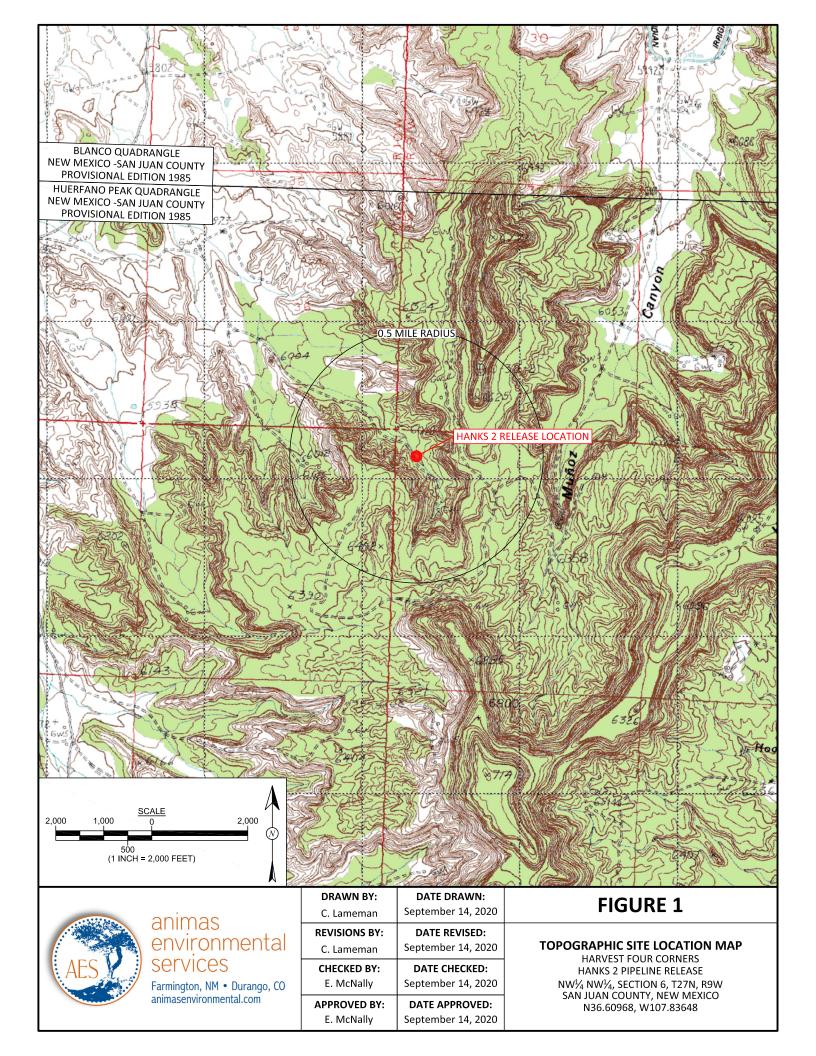
Bloomfield, New Mexico 87413

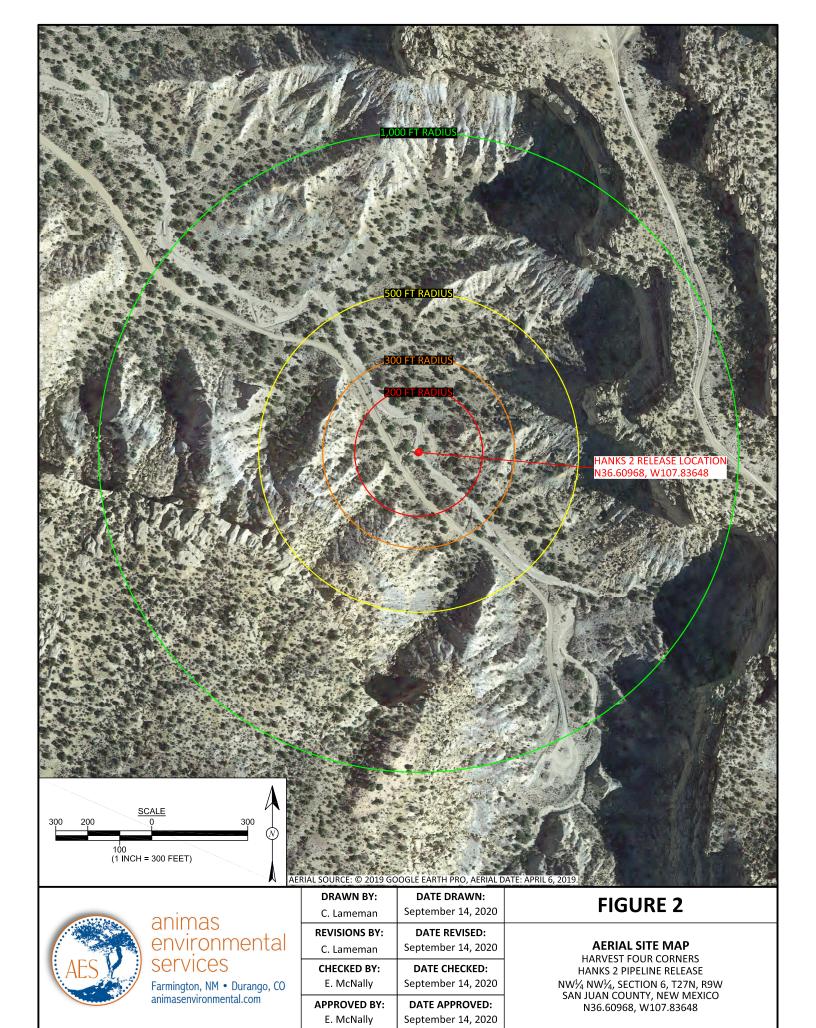
Email: khong@harvestmidstream.com

Tamara Faust and Sherrie Landon
Bureau of Land Management
Farmington Field Office
6251 College Blvd., Suite A
Farmington, New Mexico 87402

Email: tfaust@blm.gov and slandon@blm.gov

https://animasenvironmental.sharepoint.com/sites/HarvestMidstream/Shared Documents/Hanks 2 C-141/Reports/Hanks 2 Pipeline Exc Clearance Report 031221.docx





### LEGEND

•

SAMPLE LOCATIONS

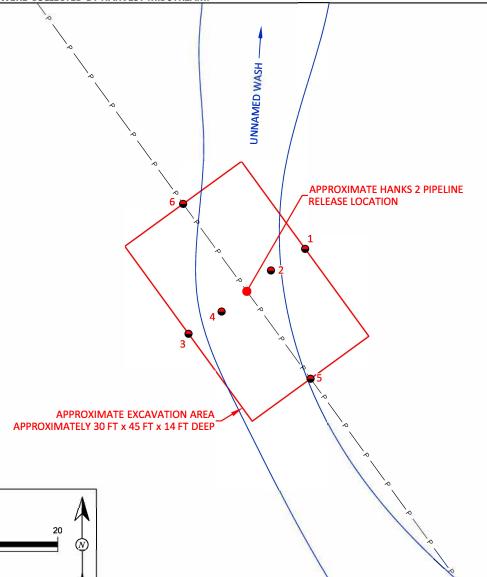
— Р —

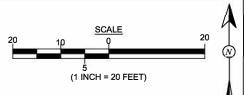
APPROXIMATE BURIED PIPELINE

	Laboratory Analytical Results							
Number	Lab Sample ID	Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)	TPH- MRO (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL		TION LEVEL	10	50		100	21.	600
1	Hanks 2 North Wall	10/1/20	<0.021	<0.190	<4.2	<9.9	<49	<60
2	Hanks #2 North Bottom #2	10/5/20	<0.089	<0.809	<18	20	<49	<60
3	Hanks 2 South Wall	10/1/20	<0.098	<0.888	<20	<9.3	<47	<60
4	Hanks 2 South Bottom	10/1/20	<0.021	<0.185	<4.1	<9.6	<48	<60
5	Hanks 2 East Wall	10/1/20	<0.018	<0.161	<3.6	<9.5	<48	<60
6	Hanks 2 West Wall	10/1/20	<0.020	<0.180	<4.0	<8.6	<43	<60

ALL SAMPLES WERE ANALYZED PER USEPA METHOD 8260B, 8015D AND 300.0.

ALL SAMPLES WERE COLLECTED BY HARVEST MIDSTREAM.







DRAWN BY:	DATE DRAWN:
C. Lameman	October 13, 2020
REVISIONS BY:	DATE REVISED:
C. Lameman	March 17, 2021
CHECKED BY:	DATE CHECKED:
D. Reese	March 17, 2021
APPROVED BY:	DATE APPROVED:
E. McNally	March 17, 2021

# EXCAVATION AREA MAP AND SOIL SAMPLE LOCATIONS HARVEST FOUR CORNERS

FIGURE 3

HARVEST FOUR CORNERS
HANKS 2 PIPELINE RELEASE
NW¼ NW¼, SECTION 6, T27N, R9W
SAN JUAN COUNTY, NEW MEXICO
N36.60968, W107.83648

### Hanks 2 NMOCD Incident No. NRM2027337168 Pipeline Release Excavation Clearance



Photo 1: Excavated pipeline, October 1, 2020.



Photo 2: Final excavation extents, October 5, 2020.

### Hanks 2 NMOCD Incident No. NRM2027337168 Pipeline Release Excavation Clearance



Photo 3: Final excavation extents, October 5, 2020.



Photo 4: Backfilled excavation, October 7, 2020.

HANK 2 LINC LEAR RR5200 813A SAMPLES 1-5 COMPOSETE BNZ VOC DITCH DEPTH 80,24 1106,92 12 #5 LAEK SITE #1 46'0" #3 #4 > 862 goingreen. Printed on a minimum of 50% mayons pa MORNING!

HONK #2 10-1-20 Pipeline South Botton Hanks#2 PiPClipe 13 14 N Boffor



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

October 06, 2020

Kijun Hong

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413 TEL: (505) 632-4475

FAX:

RE: Hanks #2 OrderNo.: 2010109

### Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 6 sample(s) on 10/2/2020 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 Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/6/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest Client Sample ID: Hanks 2 North Wall

 Project:
 Hanks #2
 Collection Date: 10/1/2020 12:40:00 PM

 Lab ID:
 2010109-001
 Matrix: SOIL
 Received Date: 10/2/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	10/2/2020 11:32:13 AM	55613
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/2/2020 9:12:07 AM	55609
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/2/2020 9:12:07 AM	55609
Surr: DNOP	104	30.4-154	%Rec	1	10/2/2020 9:12:07 AM	55609
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	RAA
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	10/2/2020 10:44:38 AM	R72336
Surr: BFB	85.8	75.3-105	%Rec	1	10/2/2020 10:44:38 AM	R72336
EPA METHOD 8021B: VOLATILES					Analyst:	RAA
Benzene	ND	0.021	mg/Kg	1	10/2/2020 10:44:38 AM	BS72336
Toluene	ND	0.042	mg/Kg	1	10/2/2020 10:44:38 AM	BS72336
Ethylbenzene	ND	0.042	mg/Kg	1	10/2/2020 10:44:38 AM	BS72336
Xylenes, Total	ND	0.085	mg/Kg	1	10/2/2020 10:44:38 AM	BS72336
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	10/2/2020 10:44:38 AM	BS72336

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

- 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 1 of 9

Date Reported: 10/6/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: Hanks 2 North Bottom

Project: Hanks #2

Collection Date: 10/1/2020 12:50:00 PM

**Lab ID:** 2010109-002 **Matrix:** SOIL **Received Date:** 10/2/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	ND	60		mg/Kg	20	10/2/2020 11:44:38 AM	55613
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst:	BRM
Diesel Range Organics (DRO)	72	10		mg/Kg	1	10/2/2020 9:35:56 AM	55609
Motor Oil Range Organics (MRO)	120	50		mg/Kg	1	10/2/2020 9:35:56 AM	55609
Surr: DNOP	111	30.4-154		%Rec	1	10/2/2020 9:35:56 AM	55609
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	RAA
Gasoline Range Organics (GRO)	21	18		mg/Kg	5	10/2/2020 11:07:59 AM	R72336
Surr: BFB	127	75.3-105	S	%Rec	5	10/2/2020 11:07:59 AM	R72336
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	ND	0.091		mg/Kg	5	10/2/2020 11:07:59 AM	BS72336
Toluene	ND	0.18		mg/Kg	5	10/2/2020 11:07:59 AM	BS72336
Ethylbenzene	ND	0.18		mg/Kg	5	10/2/2020 11:07:59 AM	BS72336
Xylenes, Total	ND	0.36		mg/Kg	5	10/2/2020 11:07:59 AM	BS72336
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	5	10/2/2020 11:07:59 AM	BS72336

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

- 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 9

Date Reported: 10/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: Hanks 2 South Wall

Project: Hanks #2 Collection Date: 10/1/2020 1:00:00 PM

**Lab ID:** 2010109-003 **Matrix:** SOIL **Received Date:** 10/2/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	10/2/2020 11:57:03 AM	55613
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	10/2/2020 9:59:47 AM	55609
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/2/2020 9:59:47 AM	55609
Surr: DNOP	109	30.4-154	%Rec	1	10/2/2020 9:59:47 AM	55609
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	RAA
Gasoline Range Organics (GRO)	ND	20	mg/Kg	5	10/2/2020 11:31:20 AM	R72336
Surr: BFB	90.2	75.3-105	%Rec	5	10/2/2020 11:31:20 AM	R72336
EPA METHOD 8021B: VOLATILES					Analyst:	RAA
Benzene	ND	0.098	mg/Kg	5	10/2/2020 11:31:20 AM	BS72336
Toluene	ND	0.20	mg/Kg	5	10/2/2020 11:31:20 AM	BS72336
Ethylbenzene	ND	0.20	mg/Kg	5	10/2/2020 11:31:20 AM	BS72336
Xylenes, Total	ND	0.39	mg/Kg	5	10/2/2020 11:31:20 AM	BS72336
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	5	10/2/2020 11:31:20 AM	BS72336

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

- 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 9

Date Reported: 10/6/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: Hanks 2 South Bottom
Project: Hanks #2
Collection Date: 10/1/2020 1:10:00 PM

**Lab ID:** 2010109-004 **Matrix:** SOIL **Received Date:** 10/2/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	10/2/2020 12:09:27 PM	55613
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	10/2/2020 9:07:05 AM	55609
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/2/2020 9:07:05 AM	55609
Surr: DNOP	94.6	30.4-154	%Rec	1	10/2/2020 9:07:05 AM	55609
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	10/2/2020 11:54:43 AM	R72336
Surr: BFB	89.2	75.3-105	%Rec	1	10/2/2020 11:54:43 AM	R72336
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.021	mg/Kg	1	10/2/2020 11:54:43 AM	BS72336
Toluene	ND	0.041	mg/Kg	1	10/2/2020 11:54:43 AM	BS72336
Ethylbenzene	ND	0.041	mg/Kg	1	10/2/2020 11:54:43 AM	BS72336
Xylenes, Total	ND	0.082	mg/Kg	1	10/2/2020 11:54:43 AM	BS72336
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	10/2/2020 11:54:43 AM	BS72336

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

- 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

Date Reported: 10/6/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest

Project:

Hanks #2

Client Sample ID: Hanks 2 East Wall

Collection Date: 10/1/2020 1:20:00 AM

**Lab ID:** 2010109-005 **Matrix:** SOIL **Received Date:** 10/2/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	10/2/2020 12:21:51 PM	55613
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	10/2/2020 9:30:28 AM	55609
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/2/2020 9:30:28 AM	55609
Surr: DNOP	95.0	30.4-154	%Rec	1	10/2/2020 9:30:28 AM	55609
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	10/2/2020 12:18:11 PM	R72336
Surr: BFB	85.3	75.3-105	%Rec	1	10/2/2020 12:18:11 PM	R72336
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	RAA
Benzene	ND	0.018	mg/Kg	1	10/2/2020 12:18:11 PM	BS72336
Toluene	ND	0.036	mg/Kg	1	10/2/2020 12:18:11 PM	BS72336
Ethylbenzene	ND	0.036	mg/Kg	1	10/2/2020 12:18:11 PM	BS72336
Xylenes, Total	ND	0.071	mg/Kg	1	10/2/2020 12:18:11 PM	BS72336
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	10/2/2020 12:18:11 PM	BS7233€

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

- 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

Date Reported: 10/6/2020

# Hall Environmental Analysis Laboratory, Inc.

 CLIENT:
 Harvest
 Client Sample ID: Hanks 2 West Wall

 Project:
 Hanks #2
 Collection Date: 10/1/2020 1:30:00 PM

 Lab ID:
 2010109-006
 Matrix: SOIL
 Received Date: 10/2/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	10/2/2020 12:34:15 PM	55613
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	10/2/2020 9:53:50 AM	55609
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	10/2/2020 9:53:50 AM	55609
Surr: DNOP	94.8	30.4-154	%Rec	1	10/2/2020 9:53:50 AM	55609
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	10/2/2020 12:41:45 PM	R72336
Surr: BFB	87.4	75.3-105	%Rec	1	10/2/2020 12:41:45 PM	R72336
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.020	mg/Kg	1	10/2/2020 12:41:45 PM	BS72336
Toluene	ND	0.040	mg/Kg	1	10/2/2020 12:41:45 PM	BS72336
Ethylbenzene	ND	0.040	mg/Kg	1	10/2/2020 12:41:45 PM	BS72336
Xylenes, Total	ND	0.080	mg/Kg	1	10/2/2020 12:41:45 PM	BS72336
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	10/2/2020 12:41:45 PM	BS72336

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

- 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

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# Hall Environmental Analysis Laboratory, Inc.

4.7

4.762

WO#: 2010109

06-Oct-20

Client:	Harvest										
Project:	Hanks #2										
Sample ID:	LCS-55609	SampTy	pe: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch	ID: <b>55</b>	609	F	RunNo: <b>7</b> 2	2343				
Prep Date:	10/2/2020	Analysis Da	ite: 10	0/2/2020	5	SeqNo: 2	537274	Units: mg/k	<b>(</b> g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	42	10	50.00	0	84.4	70	130			
Surr: DNOP		4.7		5.000		94.4	30.4	154			
Sample ID:	MB-55609	SampTy	pe: <b>M</b> E	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: <b>55</b>	609	F	RunNo: <b>7</b> 2	2343				
Prep Date:	10/2/2020	Analysis Da	ate: 10	0/2/2020	5	SeqNo: 2	537275	Units: mg/k	<b>(</b> g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								
Motor Oil Rang	ge Organics (MRO)	ND	50								
Surr: DNOP		11		10.00		105	30.4	154			
Sample ID:	2010109-001AMS	SampTy	pe: <b>M</b> \$	5	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	Hanks 2 North Wa	II Batch	ID: <b>55</b>	609	F	RunNo: <b>7</b> 2	2343				
Prep Date:	10/2/2020	Analysis Da	ite: 10	0/2/2020	9	SeqNo: 2	537575	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	35	8.5	42.44	0	82.8	15	184			
Surr: DNOP		4.0		4.244		95.1	30.4	154			
Sample ID:	2010109-001AMSE	<b>S</b> ampTy	pe: <b>M</b> \$	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	Hanks 2 North Wa	II Batch	ID: <b>55</b>	609	F	RunNo: <b>7</b> 2	2343				
Prep Date:	10/2/2020	Analysis Da	ite: 10	0/2/2020	9	SeqNo: 2	537576	Units: mg/k	<b>(</b> g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	43	9.5	47.62	0	90.8	15	184	20.7	23.9	

### 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

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

99.7

30.4

154

0

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit 0

# Hall Environmental Analysis Laboratory, Inc.

860

845.3

WO#: **2010109** 

06-Oct-20

Client:	Harvest Hanks #2										
Project:	Haliks #2										
Sample ID: 2.5ug	gro lcs	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID: LCSS		Batch	ID: R7	2336	RunNo: <b>72336</b>						
Prep Date:		Analysis D	ate: 10	0/2/2020	5	SeqNo: 2	537634	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organi	ics (GRO)	23	5.0	25.00	0	92.4	72.5	106			
Surr: BFB		1000		1000		100	75.3	105			
Sample ID: mb		SampT	уре: М	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID: PBS		Batch	ID: <b>R7</b>	2336	F	RunNo: 7	2336				
Prep Date:		Analysis D	ate: 10	0/2/2020	5	SeqNo: 2	537641	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organi	ics (GRO)	ND	5.0								
Surr: BFB		1000		1000		105	75.3	105			
Sample ID: <b>20101</b>	09-001ams	SampT	ype: <b>M</b> \$	5	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: Hanks	2 North Wa	II Batch	ID: <b>R7</b>	2336	F	RunNo: 7	2336				
Prep Date:		Analysis D	ate: 10	0/2/2020	5	SeqNo: 2	538215	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organi	ics (GRO)	19	4.2	21.13	0	87.9	61.3	114			
Surr: BFB		850		845.3		101	75.3	105			
Sample ID: 20101	09-001amsd	SampT	ype: <b>M</b> \$	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: Hanks	2 North Wa	II Batch	ID: R7	2336	F	RunNo: 7	2336				
Prep Date:		Analysis D	ate: 10	0/2/2020	5	SeqNo: 2	538216	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organi	ics (GRO)	18	4.2	21.13	0	87.0	61.3	114	1.10	20	

### Qualifiers:

Surr: BFB

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

102

75.3

105

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2010109** 

06-Oct-20

Client: Harvest Project: Hanks #2

Sample ID: 100ng btex Ics	Samp	SampType: LCS TestCode: EPA Method					8021B: Vola	iles		
Client ID: LCSS	Batc	atch ID: <b>BS72336</b> RunNo: <b>72336</b>								
Prep Date:	Analysis [	Date: 10	)/2/2020	8	SeqNo: 2	537643	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	93.3	80	120			
Toluene	0.98	0.050	1.000	0	98.4	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120			

Sample ID: mb	SampT	уре: МЕ	BLK	Tes	tCode: El					
Client ID: PBS	Batch	n ID: BS	72336	R	RunNo: <b>72336</b>					
Prep Date:	Analysis D	ate: 10	)/2/2020	S	SeqNo: 2	537650	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		118	80	120			

Sample ID: 2010109-002am	s SampT	уре: М	3	TestCode: EPA Method 8021B: Volatiles						
Client ID: Hanks 2 North I	72336	RunNo: <b>72336</b>								
Prep Date:	Analysis D	Date: 10	)/2/2020	SeqNo: 2538242 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.5	0.091	3.642	0	96.2	76.3	120			
Toluene	3.7	0.18	3.642	0.04770	102	78.5	120			
Ethylbenzene	3.8	0.18	3.642	0.07501	103	78.1	124			
Xylenes, Total	12	0.36	10.92	0.2899	104	79.3	125			
Surr: 4-Bromofluorobenzene	4.0		3.642		111	80	120			

Sample ID: 2010109-002ams	<b>d</b> SampT	уре: МS	SD	TestCode: EPA Method 8021B: Volatiles						
Client ID: Hanks 2 North Bo	otto Batcl	n ID: BS	72336	RunNo: <b>72336</b>						
Prep Date:	Analysis D	oate: 10	)/2/2020	SeqNo: 2538243 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.5	0.091	3.642	0	96.9	76.3	120	0.704	20	
Toluene	3.7	0.18	3.642	0.04770	101	78.5	120	0.546	20	
Ethylbenzene	3.8	0.18	3.642	0.07501	103	78.1	124	0.171	20	
Xylenes, Total	12	0.36	10.92	0.2899	104	79.3	125	0.0903	20	
Surr: 4-Bromofluorobenzene	4.2		3.642		116	80	120	0	0	

### Qualifiers:

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

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

# Sample Log-In Check List

Client Name: Harvest Work Order Number: 2010109 RcptNo: 1 Received By: Cheyenne Cason 10/2/2020 8:00:00 AM Hearing Completed By: Juan Rojas 10/2/2020 8:08:44 AM Reviewed By: 10/2/00 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 🗌 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA  $\square$ 5. Sample(s) in proper container(s)? Yes 🗸 No Yes 🗸 6. Sufficient sample volume for indicated test(s)? No 7. 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 V Yes 10. Were any sample containers received broken? No 🗸 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? **V** No 🗌 Checked by: 18 10/7/7 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No NA 🗸 Person Notified: Date By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 4.3 Good

	hain	-of-Cu	istody Record	Turn-Around	Time:	Same Day		37	17.00			_								
Client:	Harv	est n	aid Streem	☐ Standard	<b>⊈</b> ∕Rush	10-2-20												NT		J.
				Project Name													KA	\TO	KI	r
Mailing	Address	5: 175	5-AROYO DR	WestKS	#2			404			ww.ha									
B/0	om i	Eicld	Nm 87413	Han KS Project #:	Ø		$\mathbf{I}$			awkins			9.5							
Phone	# 50	5= 632	2-4475	,				Те	l. 50	5-345-	Mass materials		THE RESERVE TO SHARE	CONTRACTOR OF THE PARTY OF	CONTRACTOR DE LA CONTRA	-4107	7		<b>元</b> 等等	
			DH410est Midstean. con	Project Mana	agor:				्रा			Anell	A CHARLES	Req	uest					
	Package:	0	3 114.001 1.001 0.11, 0.00	Trioject Maria	iger.		21)	only	ARC				SO4	့တ						
□ Stan			☐ Level 4 (Full Validation)	KIJUN	HONG		TMB's (8021)	TPH (Gas only)	DRO / MRO)		SIMS)		Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	PCB's						
Accred	itation		,	Sampler: M	organ Kil	liow	/IB's	) H	DR				O <sub>2</sub> ,F	182						
□ NEL		□ Othe	r		Yes	□ No	=	<del> </del>	8015B (GRO /	TPH (Method 418.1)	8270		3,N	8081 Pesticides / 8082		8				Air Bubbles (Y or N)
	(Type)	T	14 1. 1. 1. 2. 1.2.	Sample Tem	perature: 니, t	1-0.1=4.3	出	BE.	9	4 b	or	tals	N,	ides	2	0	2			\ \ \
			e a grand de la compansa de la compa	Container	D		+ MTBÉ	+ MTBE	15B	etho	PAH's (8310 or	RCRA 8 Metals	E,C	stic	8260B (VOA)	8270 (Semi-VOA)	Shorid			les
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	+   ×	* *	8	2 3	1.8	\X 8	) Su	1 Pe	)B(	(S)	0			qqng
,			1.		.,,,,,,	7010109	BTEX	BTEX	TPH	直급		R C F	Anio	308	3260	3270	7			Air B
1/20	12:40	5011	Hank: 2 North wall	1-402	C001	-001	Χ		X					-			X		1	
1/2	12:50	Soil	HANKS a BOHON	14402,	1	-002	X		X								×		+	
1/20	1:00	50:1	south wall	1-402	-	-003	X		X							,	X		+	+
1/20	1'.10		Adam KS 2 Botton	1-40Z		-004	X		1						$\dashv$		$\overrightarrow{A}$	+	+	+
1.	1:20		Hanks 2911	1-402		-005	X		X		+			-	$\dashv$	+	X	-	+	+
V	1:31		Hanks 2 //	1-402	4	-006	X	+	X	+	+			$\dashv$	$\dashv$	$\dashv$	^	_	-	+-
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							$\dashv$	-		_	+			_		$\dashv$	+		+	
								_	_	_	-			_	$\dashv$	_	_	$\perp$	1	
			1 1				_						_		_	_		$\perp$	$\perp$	Ш
Date:	Time:	Relinquishe	d bv:	Received by:		Date Time								$\perp$	$\perp$					
1/20	15H	gune	Killian	A ha	1. [ ]	Date Time 1514	Rem	orqu	an i	K:/1	'oN	(a)	Ya.	h00	, . (	CON	1			
		Relinquishe	d by:	Received by:	Walt	Date Time		J												
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

October 07, 2020

Kijun Hong

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413 TEL: (505) 632-4475

FAX

RE: Hanks 2 OrderNo.: 2010212

### Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/6/2020 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 Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

ry, Inc. Date Reported: 10/7/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: Hanks #2 North Bottom #2
Project: Hanks 2
Collection Date: 10/5/2020 1:15:00 PM

**Lab ID:** 2010212-001 **Matrix:** MEOH (SOIL) **Received Date:** 10/6/2020 8:03:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	10/6/2020 11:25:41 AM	55664
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	: BRM
Diesel Range Organics (DRO)	20	9.8	mg/Kg	1	10/6/2020 9:55:49 AM	55660
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/6/2020 9:55:49 AM	55660
Surr: DNOP	107	30.4-154	%Rec	1	10/6/2020 9:55:49 AM	55660
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	18	mg/Kg	5	10/6/2020 9:38:58 AM	G72412
Surr: BFB	88.0	75.3-105	%Rec	5	10/6/2020 9:38:58 AM	G72412
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.089	mg/Kg	5	10/6/2020 9:38:58 AM	B72412
Toluene	ND	0.18	mg/Kg	5	10/6/2020 9:38:58 AM	B72412
Ethylbenzene	ND	0.18	mg/Kg	5	10/6/2020 9:38:58 AM	B72412
Xylenes, Total	ND	0.36	mg/Kg	5	10/6/2020 9:38:58 AM	B72412
Surr: 4-Bromofluorobenzene	98.6	80-120	%Rec	5	10/6/2020 9:38:58 AM	B72412

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

ple pH Not In Range
Page 1 of 5

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2010212** 

07-Oct-20

Client: Harvest Project: Hanks 2

Sample ID: MB-55664 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **55664** RunNo: **72421** 

Prep Date: 10/6/2020 Analysis Date: 10/6/2020 SeqNo: 2542585 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-55664 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 55664 RunNo: 72421

Prep Date: 10/6/2020 Analysis Date: 10/6/2020 SeqNo: 2542586 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.5 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 2 of 5

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2010212** 

07-Oct-20

Client:	Harvest
Project:	Hanks 2

Project: Hanks 2	<u>.                                    </u>									
Sample ID: LCS-55660	SampT	ype: <b>LC</b>	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batch	ID: <b>55</b>	660	F	RunNo: 7	2414				
Prep Date: 10/6/2020	Analysis D	ate: 10	0/6/2020	S	SeqNo: 2	540357	Units: mg/l	<b>K</b> g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.5	70	130			
Surr: DNOP	4.8		5.000		95.5	30.4	154			
Sample ID: MB-55660	SampT	ype: <b>ME</b>	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: PBS	Batch	ID: <b>55</b>	660	F	RunNo: 7	2414				
Prep Date: 10/6/2020	Analysis D	ate: 10	0/6/2020	S	SeqNo: 2	540358	Units: mg/l	<b>K</b> 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		106	30.4	154			
Sample ID: 2010212-001AM	S SampT	уре: <b>М</b> \$	3	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: Hanks #2 North	Bott Batch	ID: <b>55</b>	660	F	RunNo: 7	2414				
Prep Date: 10/6/2020	Analysis D	ate: 10	0/6/2020	5	SeqNo: 2	542369	Units: mg/l	Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	9.1	45.54	20.31	74.0	15	184			
Surr: DNOP	4.7		4.554		103	30.4	154			
Sample ID: 2010212-001AM	SD SampT	уре: <b>М</b> \$	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: Hanks #2 North	Bott Batch	ID: <b>55</b>	660	F	RunNo: 7	2414				
Prep Date: 10/6/2020	Analysis D	ate: 10	0/6/2020	5	SeqNo: 2	542370	Units: mg/l	≺g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	8.7	43.63	20.31	74.3	15	184	2.45	23.9	
Surr: DNOP	4.5		4.363		103	30.4	154	0	0	

### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2010212** 

07-Oct-20

Client: Harvest Project: Hanks 2

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: G72412 RunNo: 72412

Prep Date: Analysis Date: 10/6/2020 SeqNo: 2541949 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 800 1000 79.9 75.3 105

Sample ID: 2.5ug gro Icsb SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: G72412 RunNo: 72412

Prep Date: Analysis Date: 10/6/2020 SeqNo: 2541950 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 72.5 5.0 25.00 O 83.7 106

Surr: BFB 990 1000 98.5 75.3 105

Sample ID: 2010212-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: Hanks #2 North Bott Batch ID: G72412 RunNo: 72412

Prep Date: Analysis Date: 10/6/2020 SeqNo: 2541951 Units: mg/Kg

%REC PQL SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Gasoline Range Organics (GRO) 75 18 89.10 0 84.7 61.3 114 Surr: BFB 3564 96.8 3500 75.3 105

Sample ID: 2010212-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: Hanks #2 North Bott Batch ID: G72412 RunNo: 72412

Prep Date: Analysis Date: 10/6/2020 SeqNo: 2541952 Units: mq/Kq

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual Gasoline Range Organics (GRO) 77 18 89.10 86.5 61.3 2.10 114 20 Surr: BFB 3800 3564 107 75.3 105 0 0 S

### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical 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

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2010212** 

07-Oct-20

Client:	Harvest
Project:	Hanks 2

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS RunNo: 72412 Batch ID: **B72412** Prep Date: Analysis Date: 10/6/2020 SeqNo: 2541955 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Benzene ND 0.025 Toluene ND 0.050 ND 0.050 Ethylbenzene Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.99 1.000 99.3 80 120

Sample ID: 2010212-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: Hanks #2 North Bott Batch ID: **B72412** RunNo: 72412 Units: mg/Kg Prep Date: Analysis Date: 10/6/2020 SeqNo: 2541957 Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 3.3 0.089 3.564 0 91.9 76.3 120 Benzene Toluene 3.4 0.18 3.564 0 96.6 78.5 120 0 98.3 78.1 Ethylbenzene 3.5 0.18 3.564 124 11 0.36 97.5 79.3 125 Xylenes, Total 10.69 0.08482 Surr: 4-Bromofluorobenzene 3.7 3.564 104 80 120

Sample ID: 2010212-001AM	ISD SampT	уре: <b>М</b> S	3D	TestCode: EPA Method 8021B: Volatiles									
Client ID: Hanks #2 North	Bott Batch	h ID: <b>B7</b> :	2412	RunNo: <b>72412</b>									
Prep Date:	Analysis D	)ate: 10	0/6/2020	S	SeqNo: 2	541958	Units: mg/K						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	3.2	0.089	3.564	0	91.1	76.3	120	0.852	20				
Toluene	3.5	0.18	3.564	0	96.9	78.5	120	0.289	20				
Ethylbenzene	3.5	0.18	3.564	0	99.6	78.1	124	1.29	20				
Xylenes, Total	11	0.36	10.69	0.08482	99.2	79.3	125	1.75	20				
Surr: 4-Bromofluorobenzene	3.7		3.564		105	80	120	0	0				

Sample ID: 100ng btex Ics	Samp	Гуре: <b>LC</b>	S	TestCode: EPA Method 8021B: Volatiles										
Client ID: LCSS	Batc	h ID: <b>B7</b>	2412	F	RunNo: <b>72412</b>									
Prep Date:	Analysis [	Date: 10	/6/2020	9	SeqNo: 2	541959	Units: mg/k	(g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.84	0.025	1.000	0	83.5	80	120							
Toluene	0.88	0.050	1.000	0	88.4	80	120							
Ethylbenzene	0.89	0.050	1.000	0	88.7	80	120							
Xylenes, Total	2.6	0.10	3.000	0	88.1	80	120							
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120							

#### 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



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

# Sample Log-In Check List

Client Name: Harvest Work Order Number: 2010212 RcptNo: 1 Received By: Cheyenne Cason 10/6/2020 8:03:00 AM I-O-K Completed By: Isaiah Ortiz 10/6/2020 8:13:53 AM Reviewed By: DAD 10/6/20 Chain of Custody No 🗌 Yes 🗸 Not Present 1. Is Chain of Custody complete? 2. How was the sample delivered? Courier Log In Yes 🗸 3. Was an attempt made to cool the samples? No 🗌 NA 🗌 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA 🗌 Yes 🗸 No 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 preserved? No 🗸 NA 🗌 Yes 8. Was preservative added to bottles? No 🗌 NA 🗸 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes Yes 🗌 No 🗸 10. Were any sample containers received broken? # of preserved bottles checked for pH: 11. Does paperwork match bottle labels? Yes 🗸 No 🔲 (<2 or >12 unless noted) (Note discrepancies on chain of custody) Yes 🗸 No 🗌 12. Are matrices correctly identified on Chain of Custody? No 🗌 13. Is it clear what analyses were requested? Yes **V** WC 10/6/2 No 🗌 Yes 🗸 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗸 Person Notified: Date: By Whom: Via: Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 2.7 Good

	hain	of-Cu	stody Record	Turn-Around	Time:	Same Day				n.	I A I			N II N	7 TC 115	00	B. II II			AI	
Client:	Harves	+mids	Heen	☐ Standard	☑ Rush	Same Day 10-2-20	-		_										NT		V
			and the second	Project Name	e:										ment			n 420		V II & I	•
Mailing	Address	:1755	-ARROYO DR	Hanks Project #:	**Z			490	)1 H	awki								7109			
			Nm 874/3	Project #:		1	1			5-34					505-						
Phone :	#: 509	5-632	. W472							Analysis Request											
			harvest midsteen. con	Project Mana	iger:		(8021)	L(Şlu	TPH 8015B (GRO / DRO / MRO)  TPH 8015B (GRO / DRO / MRO)  TPH (Method 418.1)  EDB (Method 504.1)  PAH's (8310 or 8270 SIMS)  RCRA 8 Metals  Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )  8081 Pesticides / 8082 PCB's  8260B (VOA)						R						
QA/QC Package:			D's and desired				TPH (Gas only)	M /			13)		Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	PCB's							
□ Stan			☐ Level 4 (Full Validation)	KIJUN			3,8	9)	8			SIMS)		2,P(	2 P						
Accredi		□ Othe	ar		orgen Kill		TMB's	[ [		£.	<u>-:</u>	270		8	808						Ê
epin a recessor		L Othe	er	On Ice:	Yes ?	□ No	+	+	38	418	504	or 8,	<u>s</u>	Ş	) Se		OA)	o)			or N)
□ EDD	(Type)_	Τ		Sample Tem	perature:2.7	±0=4.7	+ MTBE	+ MTBE +	) B	hod	hod	100	/leta	2,	icid	OA)	V-in	Pil			(Y
Date	Time	Matrix	Sample Request ID	Container	Preservative	HEAL No.	+	2	3015	Met	Met	(83	181	s (F	Pesi	Š	(Ser	40,			pple
Date	Time	IVIALITA	Sample Request ID	Type and #	Туре		BTEX	BTEX	띪	H H	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	nion	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Ch Lo,			Air Bubbles (Y
2/0-1	1110	4.1	North Bottom#2	1 1/05	0 1	2010212	M V	<u>B</u>		<u> </u>	Ш	<u>α</u>	~	⋖	ω̈	8	80	~		-	<
15/20	1:15	50,1	North Bottom 2	1-402	Cool	(4)	X	$\vdash$	Х	+	-	-	-					$A \mid$	$\dashv$	-	+
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Date: 0/5/2 s	Time:	Relinquish	ed by: Lilleon	Received by:	Wast	Date Time 10/5/2020	Ren	narks	( )	n tr	ct	cr	7	Coc	12	ch	n	10/61	7		
Date:	Time:	Relinquish	ed by:	Redeived by:	Cam	Date Time															
	110.0	1	Maria Maria	<u> </u>	00 11.2	10,00									_						



### NMOCD Site Assessment/Characterization, Remediation & Closure

Site Name: Hanks 2 Pipeline

API #: not applicable

Lat/Long:	Lat/Long: N36.60968 W107.83648											
TRS:	NW/NW-6-27N-9W	I										
Land Jurisdiction:	Federal - BLM											
	County: San Juan											
Determination made by:		M/Environmental Sc	rientist									
	9/14/2020	vij Erivii Oriiriciitar St	Cicitist									
Date.	3/14/2020											
Wellhe	ad Protection Area	Assessment:										
Determine the horizontal distance from all known w	ater sources within 1	/2 mile of the release	including private and	domestic								
water sources. Water sources are wells, springs or o				ter sources are								
those water sources used by less than five househol	_											
Water Source Type (well/spring/stock pond)	ID (if available)	Latitude	Longitude	Distance								
none within 1/2 mile												
		(1) 11 0 10 17										
Distance to Nearest S		<u> </u>	•									
release location is within a wash tributary to A												
Depth to Groundw	ater Determinatio	<b>n</b> (NMAC 19.15.29.1	L1A.2)									
Cathodic Report/Site Specific Hydrogeology	none available											
cathodic Report/Site Specific Hydrogeology	none available											
Elevation Differential	release location is	within wash										
	no registered wells											
Cathodic Report Nearby Wells												
	ceptor Determinat											
*If a release occurs within the following areas, i			curred less than 50	V								
ft to Groundwater (NMAC 19.15.29.12C.4):				Yes								
<300' of any continuously flowing watercourse				<b>√</b>								
<200' of any lakebed, sinkhole or playa lake (m			· Mark)									
<300' of an occupied permanent residence, sch				□ l								
<500' of a spring or private/domestic water we	II used by <5 house	holds for domestic	or stock watering									
purposes												
<1000' of any water well or spring within incorporated municipal boundaries or w	vithin a defined mu	nicipal fresh water	wall field									
<300' of a wetland	ittiiii a deiiiied iiidi	ilicipai iresii watei	well field									
within the area overlying a subsurface mine												
within an unstable area												
within a 100-year floodplain				i i								
Explain any 'Yes' Marks:												
Release location is within a wash that is a tribu	tary of Armenta Cai	nyon Wash. Designo	ated as a wetland by	v Nat.								
Wetlands Inventory. Also, not shown as within a	a 100-year floodpla	in despite being loc	ated within a wash.									
Actual Depth to Groundwater is:	≤50 ☑	50-100	>100 🗌									
*Treat Depth to Groundwater is:	_		7100									
cat Depth to Groundwat	≤50	50-100	>100									
Release Action Levels are Benzene	10	10	10									
BTEX (mg/kg)	50	50	50									
8015 TPH (GRO/DRO) (mg/kg)	Not Applicable	1,000	1,000									
8015 TPH (GRO/DRO/MRO) (mg/kg)												
(,,		_,	_,									

Chlorides (mg/kg) 600 10,000 20,000

NMAC 19.15.29.12 Table I. Release Action Levels are determined by the depth below bottom of pit to groundwater.



# New Mexico Office of the State Engineer

# **Active & Inactive Points of Diversion**

(with Ownership Information)

No PODs found

UTMNAD83 Radius Search (in meters):

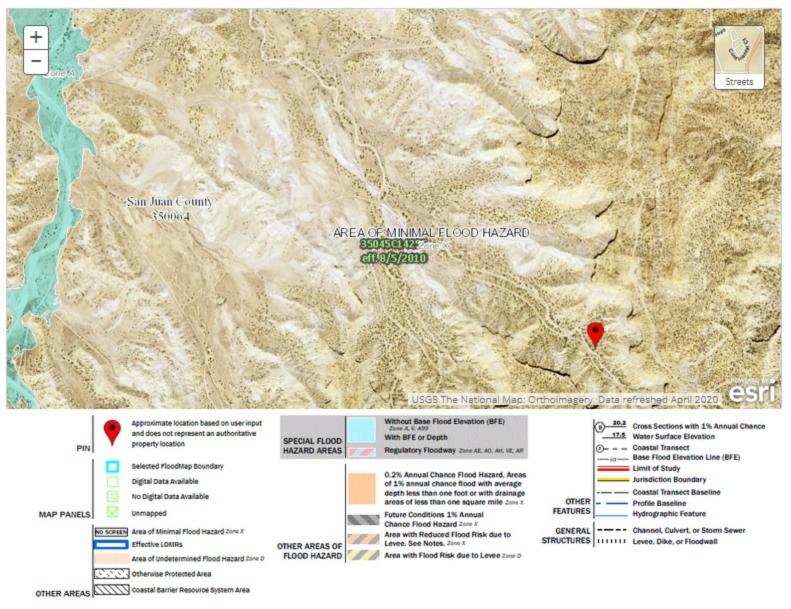
246307

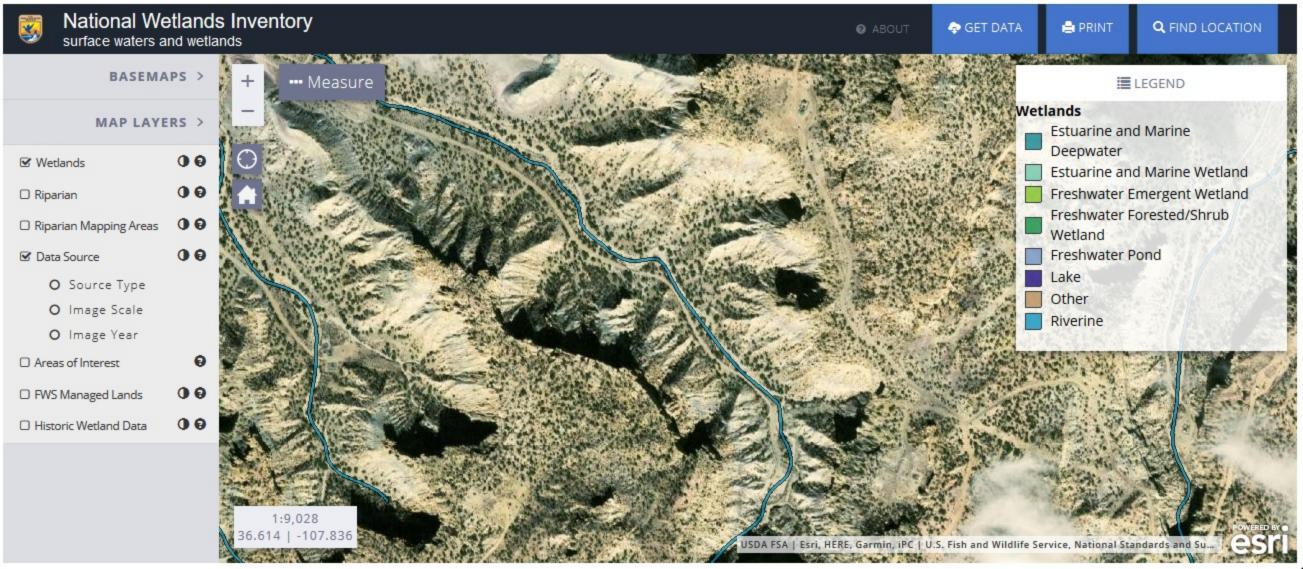
Northing (Y):

4055322 Radius: 805

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

Easting (X):





# Angela Ledgerwood

From: Karen Lupton <klupton@animasenvironmental.com>

**Sent:** Friday, September 25, 2020 10:34 AM **To:** Cory Smith (cory.smith@state.nm.us)

**Cc:** Kijun Hong

**Subject:** [EXTERNAL] Project Notification for Harvest Midstream Hanks 2

Hi Cory:

Harvest Midtstream will be pulling samples at the Hanks 2 site on Monday, September 28th at 9:00AM. Morgan Killion will be onsite to conducting the sampling.

### Thank you!

Karen Lupton
Director of Operations
<u>klupton@animasenvironmental.com</u>
Animas Environmental Services, LLC
<u>www.animasenvironmental.com</u>
624 E Comanche, Farmington, NM 87401
P.O. Box 8, Farmington, NM 87499-0008
(Tel) 505.564.2281

From: <u>Karen Lupton</u>

To: Cory Smith (cory.smith@state.nm.us)

Cc: aadeloye@blm.gov; Kijun Hong; morgankillion@yahoo.com; Elizabeth McNally

 $\underline{(emcnally@animasenvironmental.com)}; \underline{David\ Reese\ (dreese@animasenvironmental.com)}$ 

**Subject:** Sampling Notification for Harvest Midstream Hanks 2

**Date:** Tuesday, September 29, 2020 12:30:00 PM

### Hello All:

This notification is for sampling at the Harvest Hanks 2 site. Sampling is scheduled for Thursday, October 1<sup>st</sup> at 12:30PM. Morgan Killion will be onsite to pull samples.

Animas Environmental Services apologizes for the oversight on the first notification and has taken measures to ensure that all appropriate parties are notified in a timely manner going forward.

Please do not hesitate to reach out with any questions or concerns.

Thank you,

Karen Lupton
Director of Operations
<a href="mailto:klupton@animasenvironmental.com">klupton@animasenvironmental.com</a>
Animas Environmental Services, LLC
<a href="www.animasenvironmental.com">www.animasenvironmental.com</a>
624 E Comanche, Farmington, NM 87499-0008
(Tel) 505.564.2281

### **Angela Ledgerwood**

From: Kijun Hong <khong@harvestmidstream.com>

**Sent:** Tuesday, March 23, 2021 3:12 PM

**To:** Angela Ledgerwood

**Subject:** FW: [EXTERNAL] RE: Hanks 2 resample

From: Smith, Cory, EMNRD [mailto:Cory.Smith@state.nm.us]

Sent: Friday, October 2, 2020 6:16 PM

To: Kijun Hong; aadeloye@blm.gov; dmankiew@blm.gov; g1smith@blm.gov

Cc: Morgan Killion - Intermountain Construction (morgankillion@yahoo.com); Lloyd Bell; Joseph Pruitt; McNally,

Elizabeth; Powell, Brandon, EMNRD

Subject: [EXTERNAL] RE: Hanks 2 resample

Kijun,

OCD approves Harvest request for the short sampling notice with the condition that the surface owner is also ok with the sample notice.

In addition what time on Monday does Harvest propose to sample?

OCD approval does not relieve Harvest of any other requirements that maybe imposed by other regulatory agencies.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Kijun Hong < <a href="mailto:khong@harvestmidstream.com">khong@harvestmidstream.com</a>>

Sent: Friday, October 2, 2020 4:50 PM

**To:** Smith, Cory, EMNRD < Cory.Smith@state.nm.us >; <u>aadeloye@blm.gov</u>; <u>dmankiew@blm.gov</u>; <u>g1smith@blm.gov</u> **Cc:** Morgan Killion - Intermountain Construction (<u>morgankillion@yahoo.com</u>) < <u>morgankillion@yahoo.com</u> >; Lloyd Bell

<lbell@harvestmidstream.com>; Joseph Pruitt <jpruitt@harvestmidstream.com>; McNally, Elizabeth

<emcnally@animasenvironmental.com>

Subject: [EXT] Hanks 2 resample

Importance: High

Our preliminary results for the bottom sample (see attached) came back slightly exceeding closure limits.

We would like to dig further and sample again Monday afternoon with BLM and OCD approval. We would appreciate your response ASAP as crews are standing by. We apologies for the short notice.

If this is not acceptable, please let this serve as 48 hour notice for confirmation sampling Tuesday afternoon.

Thank You, Kijun



<u>Kijun Hong</u> | Harvest Midstream Company | Environmental Specialist | Four Corners Office: 505-632-4475 | Cell: 505-436-8457 | 1755 Arroyo Dr., Bloomfield, NM 87413

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