Bratcher, Mike, EMNRD

From: Eileen Shannon <EShannon@kleinfelder.com>
Sent: Monday, July 22, 2013 2:28 PM
To: Bratcher, Mike, EMNRD
Subject: FW: Draft Halcon Beeson water flood line releae info - near Loco Hills
Attachments: 20130624140228.pdf; 20130624140217.pdf

Hi Mike,

I thought I would resend this. Call if you get a chance, or will try to call to discuss

Thanks, Eileen

Eileen Shannon P.G.
Project Manager
9019 Washington NE, Building A
Albuquerque, NM 87113
o| 505.344.7373 Ext. 254
c| 505.307.0722
f| 505.344.1711

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From: Eileen Shannon
Sent: Tuesday, June 25, 2013 2:35 PM
To: Bratcher, Mike, EMNRD
Cc: DHall@halconresources.com; Steve Milinichik
Subject: Draft Halcon Beeson water flood line relesae info - near Loco Hills

Hi Mike,

Attached is a table and figure showing the results from drilling at the above referenced site. We have delineated laterally to the "north, east and south" and are limited by what additional can be excavated along the "west wall" due to soft blow sands surrounding the fiberglass pipeline. We also saw declining chloride concentrations. B-1 is in the bottom of the excavation, which is approximately 12 feet deeper than normal surface grade, so depth below grade is in parentheses in the info below.

We did hit perched groundwater in Boring B-1 at approximately 35 (47) feet bgs in silty sand. We then drilled into hard dry sandy clay from approximately 40 (52) feet to the TD at 56.5 (68.5) feet bgs. We did not see perched water in any of the other borings.

Would you have some time to discuss the path forward? I am heading out the field for the next 2 days and will be back in the office early afternoon on Friday. I could call you from the field tomorrow or on Thursday to discuss.

Eileen

Eileen Shannon P.G.
Project Manager
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TABLE 1
SUMMARY OF FIELD SCREENING AND ANALYTICAL DATA FOR SOIL SAMPLES
HALCON BEESON WATER FLOOD INJECTION LINE RELEASE SITE
JUNE 10-11, 2013

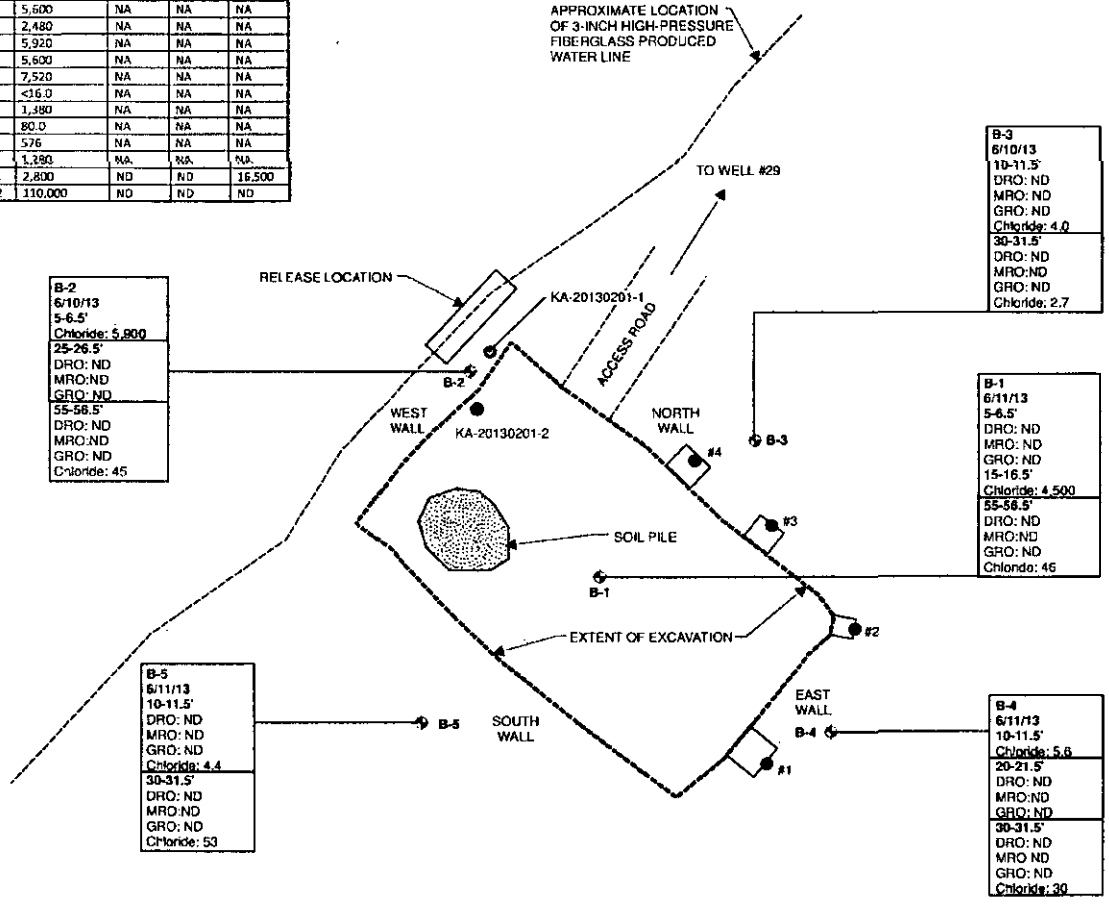
Location	Approximate Depth (feet)	Date	TPH Field Screening (ppm)	EPA 8015B				Chloride Field Screening (mg/L)	EPA 300.0	Comments
				DRO (mg/kg)	MRO (mg/kg)	GRO (mg/kg)	Total TPH (mg/kg)		Chloride (mg/kg)	
B-1	5-6.5	6/11/2013	2,602	<10	<50	<4.8	<50	1,856	NA	
	15-16.5	6/11/2013	2,287	NA	NA	NA	NA	3,388	4,500	
	55-56.5	6/11/2013	2,859	<10	<50	<4.6	<50	ND	46	
B-2	5-6.5	6/10/2013	243	NA	NA	NA	NA	6,244	5,900	
	25-26.5	6/10/2013	375	<10	<50	<4.8	<50	2,896	NA	
	55-56.5	6/10/2013	148	<10	<50	<4.7	<50	ND	45	
B-3	10-11.5	6/10/2013	NA	<10	<50	<4.7	<50	ND	4.0	
	30-31.5	6/10/2013	NA	<10	<50	<4.8	<50	ND	2.7	
B-4	10-11.5	6/11/2013	2,423	NA	NA	NA	NA	ND	5.6	
	20-21.5	6/11/2013	2,663	<10	<50	<4.7	<50	ND	NA	
	30-31.5	6/11/2013	2,664	<10	<50	<4.6	<50	ND	30	
B-5	10-11.5	6/11/2013	2,486	<10	<50	<4.8	<50	ND	4.4	
	30-31.5	6/11/2013	2,712	<10	<50	<4.7	<50	ND	53	
OCD Recommended Remedation Action Levels (Zero Total Ranking Score) in mg/kg				–			**5,000**		**1,000**	

TPH = Total Petroleum Hydrocarbons
DRO = Diesel-Range Organics
MRO = Motor Oil-Range Organics
GRO = Gasoline-Range Organics
ND = Not Detected

NS = not sampled
NA = not analyzed
mg/kg = milligrams/kilogram
ppm = parts per million
mg/L = milligrams per liter

DRAFT

Sample Date	Sample ID	Chloride Concentration (mg/kg)	Benzene	BTEX	Total TPH
8/29/12	North Wall	5,600	NA	NA	NA
8/29/12	South Wall	2,480	NA	NA	NA
8/29/12	East Wall	5,920	NA	NA	NA
8/29/12	West Wall	5,600	NA	NA	NA
8/29/12	Bottom	7,520	NA	NA	NA
8/31/12	Background	<16.0	NA	NA	NA
9/24/12	Sample #1	1,480	NA	NA	NA
9/24/12	Sample #2	80.0	NA	NA	NA
9/24/12	Sample #3	576	NA	NA	NA
9/24/12	Sample #4	1,280	NA	NA	NA
2/1/13	KA-20130201-1	2,800	ND	ND	16,500
2/1/13	KA-20130201-2	110,000	ND	ND	ND



LEGEND

- Boring Location
- KA# - Kleinfelder Sample Locations
- Approximate Extent of Excavation (2-01-13)
- Potholes where Sampling was Conducted on 9-24-12

Soil Sample Results (in milligrams per/kilogram)

GRO	Total Petroleum Hydrocarbons-as-Gasoline Range-Organics
MRO	Total Petroleum Hydrocarbons-as-Motor Oil Range-Organics
DRO	Total Petroleum Hydrocarbons-as-Diesel Range-Organics
ND	Not detected

DRAFT

Source: Kleinfelder field sketch.

0 10 20 40 Feet

N

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PROJECT NO.	132881
DRAWN:	08/25/2013
DRAWN BY.	PD
CHECKED BY:	ES
FILE NAME:	132881_SAD.MXD

SOIL ANALYTICAL DATA
JUNE 10-11, 2013

BEESON FEDERAL WATER FLOODING LINE PROJECT
LOCO HILLS
EDDY COUNTY, NEW MEXICO

FIGURE
3

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August 27, 2013
File No.: 132881

Mr. Mike Bratcher
New Mexico Oil Conservation Division
District 2
811 S First Street
Artesia, NM 88210

Subject: Results of Phase II Investigation and Work Plan for Closure
Halcón Beeson Water Flood Injection Line
Loco Hills, New Mexico

Dear Mr. Bratcher:

Kleinfelder West, Inc. (Kleinfelder), on behalf of Halcón Resources (Halcón), is pleased to submit this letter report to the New Mexico Oil Conservation Division (NMOCD). This letter report describes the scope of work, results, and conclusions of the limited Phase II Site Assessment (Phase II) performed at the above referenced site, as well as recommendations for closure.

Based on the results of this investigation, Halcón requests that NMOCD approve closure of this site (no additional investigation required) and approve the plan discussed in this report to backfill the excavation. A copy of this report is being submitted to the Bureau of Land Management (BLM) for their concurrence and approval for closure.

The site is located in the NE ¼ of the NE ¼ of Section 31, Township 17 South, Range 30 East, approximately two miles southwest of Loco Hills, New Mexico (Figure 1). The property is owned by the BLM.

Release History

The following summarizes events and activities conducted previously at the site. Historical soil analytical data is summarized on a table in Figure 2.

- August 22, 2012 – A three-inch high pressure fiberglass pipeline near Beeson "F" Federal Lease Well #29 blew out and released an unknown quantity of produced water on to the ground.
- August 28-29, 2012 – 2,124 tons of impacted soil were excavated and hauled to the Lea Landfill. The excavation, with dimensions of approximately 35 feet by 55 feet by 10 foot deep, was left open.
- August 29, 2012 – Five soil samples were collected by Southern Bay Operating, LLC from the side walls and bottom of the excavation.

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- August 31, 2012 – A background soil sample was collected.
- September 24, 2012 – Four soil samples were collected from test pits dug into the northern and eastern sidewalls of the excavation above the caliche layer.
- February 1, 2013 – Kleinfelder visited the site and collected two soil samples from the northwest corner of the excavation.

Remediation Action Levels for Site

The NMOCD ranks remediation levels for sites, based on the following criteria: depth to groundwater; wellhead protection; and distance to surface water. Justification for the proposed ranking of zero was included in Kleinfelder's "Summary of Soil Sampling" letter submitted to the NMOCD on March 7, 2013 (Kleinfelder, 2013). Based on a total site ranking of zero, the following are remediation action levels for the site:

- Benzene: 10 milligrams/kilogram (mg/kg);
- Total benzene, toluene, ethylbenzene, xylene (BTEX): 50 mg/kg; and
- Total TPH: 5,000 mg/kg.

Phase II Investigation

Five soil borings were advanced at the site on June 10-11, 2013 to assess the horizontal and vertical extent of chloride and TPH concentrations. One soil boring was advanced at the bottom of the excavation and four borings were drilled around the perimeter of the excavation (to the north, south, east and west). The soil boring locations are shown on Figure 2.

Project Preparation
Prior to site mobilization, New Mexico One-Call was notified prior to drilling services to facilitate the location of underground utilities and pipelines. NMOCD staff, the BLM, and Halcón were notified in advance of field activities.

Field Program
A Kleinfelder geologist visited the site on June 4, 2013 with EnviroDrill, Inc. of Albuquerque, New Mexico (EnviroDrill) to conduct the site investigation. The four-wheel drive CME-75 drill rig was unable to access the site without getting stuck in the loose dry sand on site. The drilling effort was abandoned and rescheduled.

On June 10, 2013, a Kleinfelder field geologist returned to the site to conduct the site investigation. Drilling services were provided by EnviroDrill and a D-6 bulldozer from J.C Services was retained to move the drill rig to the locations needed for drilling. Soil borings were drilled using a CME-75 drill rig and 8-inch outer diameter hollow stem augers. Samples were collected at approximately every ten feet while drilling using a split spoon sampler.

Soil samples were field screened for total petroleum hydrocarbon (TPH) using a PetroFLAG kit, and for chloride using chloride titration with HACH Quantabs®. Soil samples with the highest field screening reading and the sample from the bottom of the boring were placed on ice and were retained for laboratory analysis. The soil samples were submitted under chain-of-custody to Hall Environmental Analytical Laboratory in Albuquerque, New Mexico. The samples were analyzed for chlorides by EPA Method 300.0 and TPH-gasoline range organics (GRO), -diesel range organics (DRO), and -motor oil range organics (MRO) by EPA method 8015D.

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All borings were completed with cement/bentonite grout. The top three feet of boring B-1 was capped with hydrated bentonite pellets.

Investigation Derived Waste (IDW) Management
Cuttings from borings were stockpiled at the soil pile at the west end of the excavation. It is anticipated that this material will be used as fill material.

RESULTS

Soils at the site consisted of interbedded sand with variable amounts of silt and clay, clay, and in some borings, a hard caliche. Borehole depths ranged from 31.5 to 56.5 feet bgs. The soil boring logs are included in Appendix A and a map illustrating the boring locations is included as Figure 2.

Field screening results indicated that TPH concentrations ranged from 148 (B-2 at 55-56.5 feet) to 2,859 parts per million (ppm) (B-1 at 55-56.5 feet). Field-screened chloride concentrations ranged from not detected to 6,244 milligrams per liter (mg/L) in the 5-6.5 foot sample collected from B-2. The field screening readings are included in Table 1.

According to the laboratory analytical results, total TPH (sum of TPH-DRO, TPH-MRO, and TPH-GRO) was below detection limits in all samples. Chloride concentrations ranged from 2.7 mg/kg (B-3 at 30-31.5 feet) to 5,900 mg/kg (B-2 at 5-6.5 feet). Chloride concentrations above the NMOCD Recommended Remediation Action Level of 1,000 mg/kg were detected in two samples: B-1 at 15-16.5 feet (4,500 mg/kg), and B-2 at 15-16.5 feet (5,900 mg/kg). Laboratory analytical results are summarized in Table 1 and Figure 2. The laboratory analytical report is included in Appendix B.

Based on a conversation with you on August 22, 2013, Kleinfelder recommends that the open excavation at the site be backfilled. The excavation will be backfilled to grade using the suitable fill material. The backfill material shall be wheel-roll compacted using the on-site equipment. After the completion of the backfill activities, the areas where excavation and backfilling occurred will be reseeded with a native seed mix that is approved by the BLM. Topsoil may need to be added to encourage native grass growth.

REFERENCES

Kleinfelder West, Inc., 2013, "Summary of Soil Sampling, Halcón Beeson Water Flood Injection Line, Loco Hills, New Mexico," March 7, 2013.

CLOSING

Our work will be performed in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services are provided. Our conclusions, opinions, and recommendations will be based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

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Acceptance of this letter report will indicate that Halcón has reviewed the document and determined that it does not need or want a greater level of service than provided. During the course of the performance of Kleinfelder's services, hazardous materials may be discovered. Kleinfelder will assume no responsibility or liability whatsoever for any expense, claim, loss of property value, damage, or injury that results from or in any way connected with pre-existing hazardous materials being encountered or present on the project site, or from the discovery of such hazardous materials. Notwithstanding anything contained in this letter report to the contrary, Kleinfelder shall not assume the status of an owner, operator, generator, or person who arranges for disposal, transport, storage, or treatment of hazardous materials within the meaning of any governmental statute, regulation, or order. Halcón will be solely responsible for notifying all governmental agencies, and the public at large, of the existence, release, treatment, or disposal of any hazardous materials observed at the project site, either before or during performance of Kleinfelder's services. Halcón will be responsible for all arrangements to lawfully store, treat, recycle, dispose, or otherwise handle hazardous materials, including cuttings and samples resulting from Kleinfelder's services.

Should you have any questions regarding this letter report, please contact Eileen Shannon at 505.344.7373.

Respectfully submitted,

KLEINFELDER WEST, INC.

Phillip Rust, PG, LHG
Staff Professional

Reviewed by:

Eileen Shannon, PG
Project Manager

Attachments:

Figures - Figure 1 – Site Location Map
Figure 2 – Soil Analytical Data, June 10-11, 2013

Tables - Table 1 – Summary of Field Screening and Analytical Data for Soil Samples, June 10-11, 2013

Appendices - Appendix A – Boring Logs
Appendix B – Soil Analytical Results

cc: Drew Hall, Halcón Resources Corporation, 1801 California Street, Suite 3500, Denver, CO 80202
Steve Milinichik, Halcón Resources Corporation, Meridian Tower, 5100 East Skelly Drive, Suite 650, Tulsa, OK 74135-6549
Jim Amos, Bureau of Land Management, 620 E. Greene St., Carlsbad, NM 88220

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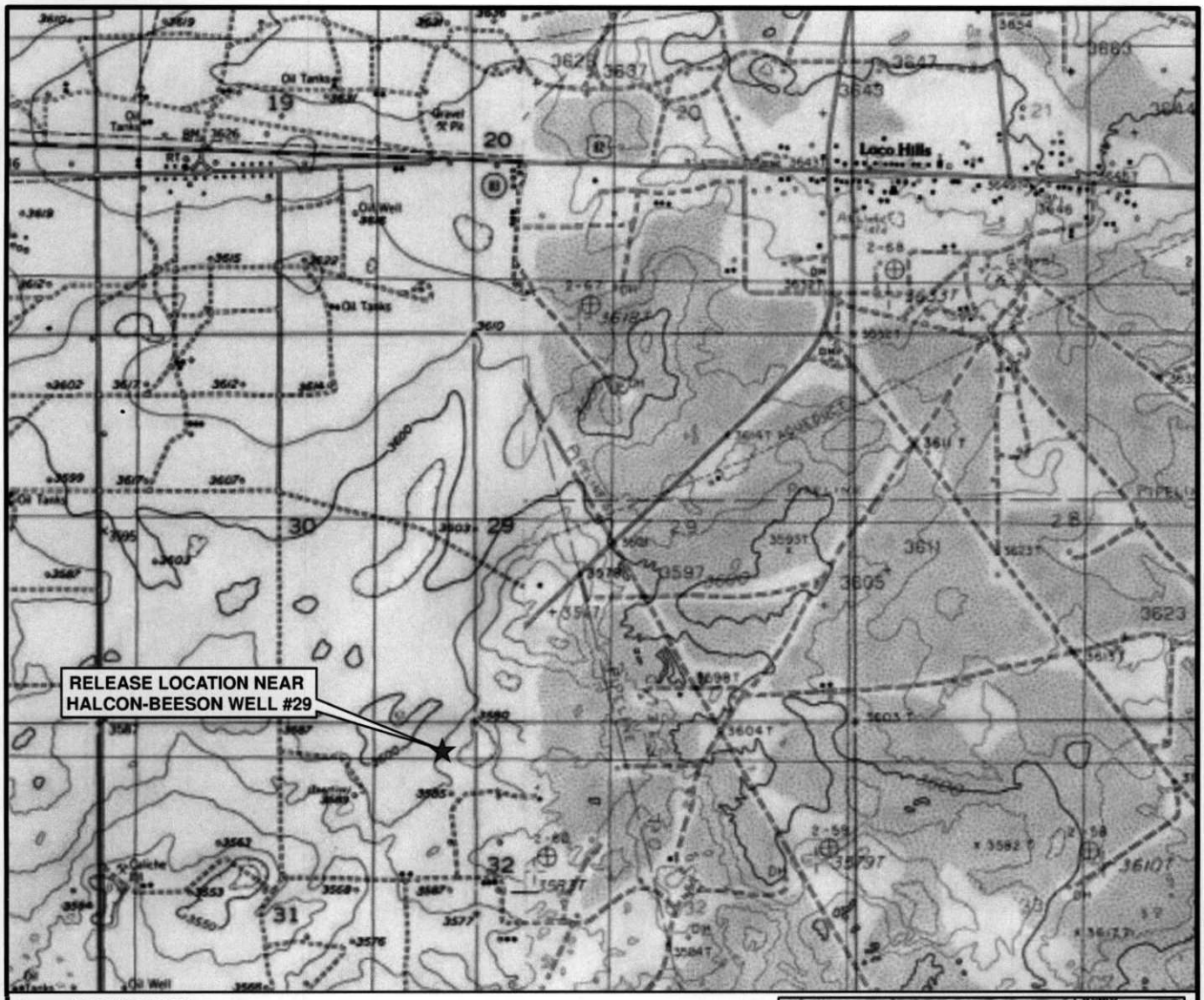
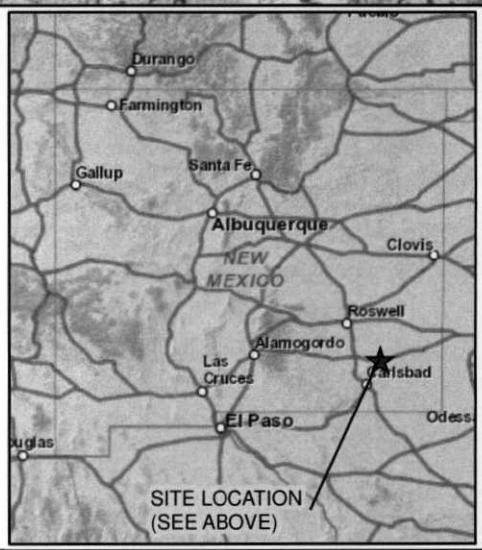
FIGURES



Source: Esri ONLINE MAPS

N

0 0.25 0.5 1 Miles



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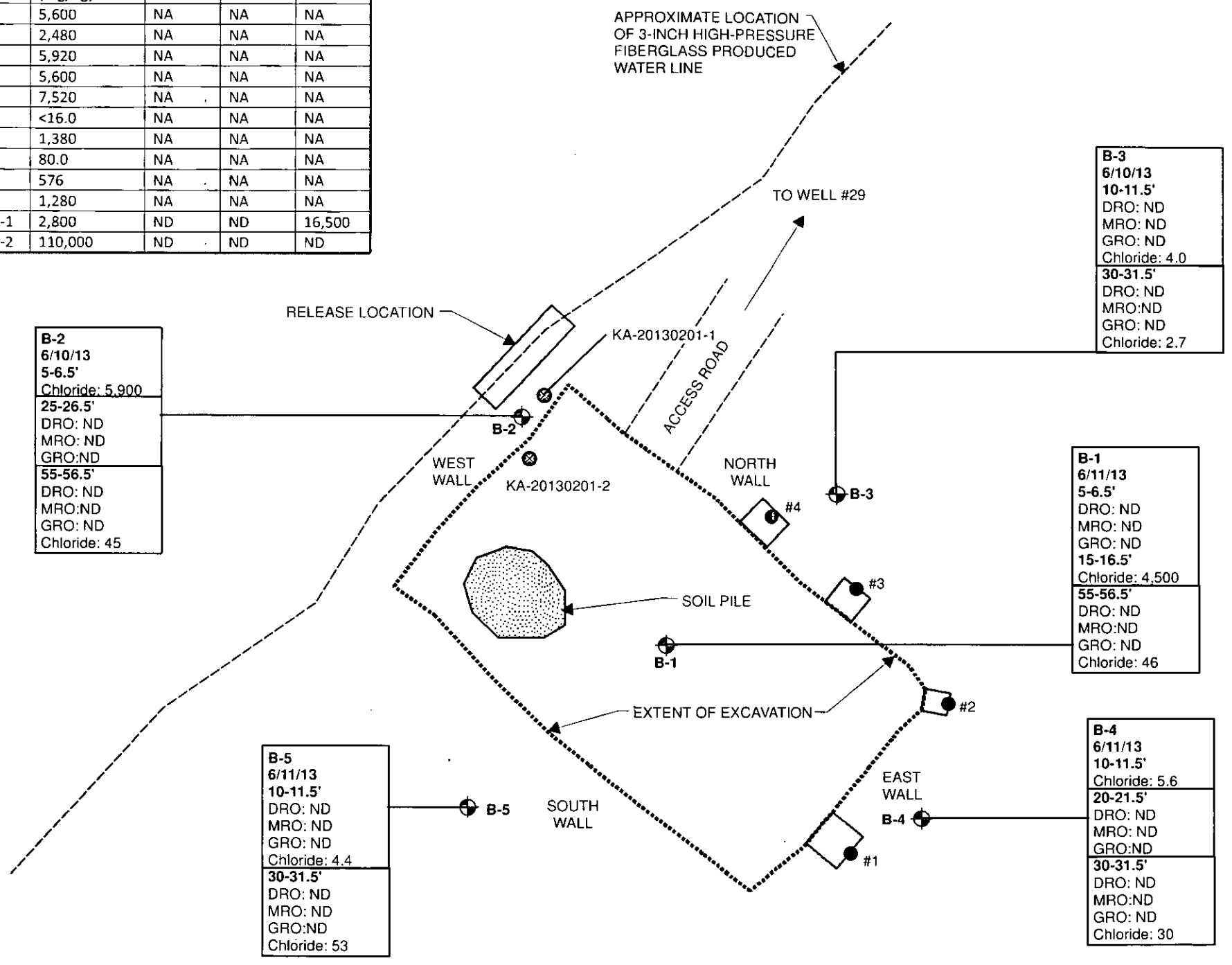
PROJECT NO. 130452	**SITE LOCATION MAP**		FIGURE
DRAWN: 2/05/2013			
DRAWN BY: PD	HALCON-BEESON WELL #29 LOCO HILLS EDDY COUNTY, NEW MEXICO		1
CHECKED BY: PR			
FILE NAME: 130452_SLM.MXD	ORIGINATOR: P. RUST	DRAWING CATEGORY: 1	
	APPROVED BY: QS 8/23/13		

HISTORICAL SOIL ANALYTICAL DATA

Sample Date	Sample ID	Chloride Concentration (mg/kg)	Benzene	BTEX	Total TPH
8/29/12	North Wall	5,600	NA	NA	NA
8/29/12	South Wall	2,480	NA	NA	NA
8/29/12	East Wall	5,920	NA	NA	NA
8/29/12	West Wall	5,600	NA	NA	NA
8/29/12	Bottom	7,520	NA	NA	NA
8/31/12	Background	<16.0	NA	NA	NA
9/24/12	Sample #1	1,380	NA	NA	NA
9/24/12	Sample #2	80.0	NA	NA	NA
9/24/12	Sample #3	576	NA	NA	NA
9/24/12	Sample #4	1,280	NA	NA	NA
2/1/13	KA-20130201-1	2,800	ND	ND	16,500
2/1/13	KA-20130201-2	110,000	ND	ND	ND



LEGEND

- Boring Location
- KA# - Kleinfelder Sample Locations
- Approximate Extent of Excavation (2-01-13)
- Potholes where Sample was Conducted on 9-24-12

Soil Sample Results (in milligrams per/kilogram)

GRO	Total Petroleum Hydrocarbons-as-Gasoline Range-Organics
MRO	Total Petroleum Hydrocarbons-as-Motor Oil Range-Organics
DRO	Total Petroleum Hydrocarbons-as-Diesel Range-Organics
ND	Not detected

Source: Kleinfelder field sketch.

0 10 20 40 Feet

N

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PROJECT NO.	132881
DRAWN:	06/25/2013
DRAWN BY:	PD
CHECKED BY:	ES
FILE NAME:	132881_SAD.MXD

SOIL ANALYTICAL DATA JUNE 10-11, 2013

BEESON FEDERAL WATER FLOODING LINE PROJECT
LOCO HILLS
EDDY COUNTY, NEW MEXICO

FIGURE
2

TABLE

TABLE 1
SUMMARY OF FIELD SCREENING AND ANALYTICAL DATA FOR SOIL SAMPLES
Halcon Beeson Produced Water Release Site
June 10-11, 2013

Location	Approximate Depth (feet)	Date	TPH Field Screening (ppm)	EPA 8015B				Chloride Field Screening (mg/L)	EPA 300.0	Comments
				DRO (mg/kg)	MRO (mg/kg)	GRO (mg/kg)	Total TPH (mg/kg)		Chloride (mg/kg)	
B-1	5-6.5	6/11/2013	2,602	<10	<50	<4.8	<50	1,856	NA	
	15-16.5	6/11/2013	2,287	NA	NA	NA	NA	3,388	4,500	
	55-56.5	6/11/2013	2,859	<10	<50	<4.6	<50	ND	46	
B-2	5-6.5	6/10/2013	243	NA	NA	NA	NA	6,244	5,900	
	25-26.5	6/10/2013	375	<10	<50	<4.8	<50	2,896	NA	
	55-56.5	6/10/2013	148	<10	<50	<4.7	<50	ND	45	
B-3	10-11.5	6/10/2013	NA	<10	<50	<4.7	<50	ND	4.0	
	30-31.5	6/10/2013	NA	<10	<50	<4.8	<50	ND	2.7	
B-4	10-11.5	6/11/2013	2,423	NA	NA	NA	NA	ND	5.6	
	20-21.5	6/11/2013	2,663	<10	<50	<4.7	<50	ND	NA	
	30-31.5	6/11/2013	2,664	<10	<50	<4.6	<50	ND	30	
B-5	10-11.5	6/11/2013	2,486	<10	<50	<4.8	<50	ND	4.4	
	30-31.5	6/11/2013	2,712	<10	<50	<4.7	<50	ND	53	
OCD Recommended Remedation Action Levels (Zero Total Ranking Score)				--			**5,000**		**1,000**	

TPH = Total Petroleum Hydrocarbons
DRO = Diesel-Range Organics
MRO = Motor Oil-Range Organics
GRO = Gasoline-Range Organics

NS = not sampled
NA = not analyzed
mg/kg = milligrams/kilogram
ppm = parts per million
mg/L = milligrams per liter

APPENDIX A

Boring Logs

Date Begin - End:	6/11/2013	**Drill Company:**	EDI	**BORING LOG B-1**	
Logged By:	P. Rust	**Drill Crew:**	C. Krozel, J. Hunt-Lynn		
Hor.-Vert. Datum:	Not Available	**Drill Equipment:**	CME-75 (truck-mounted)	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Exploration Plunge:	-90 degrees	**Exploration Method:**	Hollow Stem Auger		
Weather:		**Auger Diameter:**	8 in. O.D.		

FIELD EXPLORATION

No Coordinates Available
No Elevation Available

Surface Condition: Bottom of Excavated Pit 7-12 ft bgs

Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	TPH (ppm)	Chloride (ppm)	Graphical Log	
5		B-1 5-6.5'	16 in.	2602	1856		**Clayey SAND (SC)**: fine grained, red brown, moist, medium dense, trace organics
15		B-1 15-16.5'	17 in.	2287	3388		Loose at 15 ft bgs
20							**Poorly-Graded SAND with Silt (SP-SM)**: very fine grained to fine grained, red brown, moist, medium dense
25		B-1 25-26.5'	18 in.	2484	1420		
30							**Silty SAND (SM)**: red brown, wet, medium dense

▽

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PROJECT NO.:	132881
DRAWN BY:	PD
CHECKED BY:	PR
DATE:	6/21/2013
REVISED:	

BORING LOG B-1

Halcon Beeson - Well 29
Loco Hills
Eddy County, New Mexico

PLATE

B-1

Date Begin - End:	6/11/2013	**Drill Company:**	EDI
Logged By:	P. Rust	**Drill Crew:**	C. Krozel, J. Hunt-Lynn
Hor.-Vert. Datum:	Not Available	**Drill Equipment:**	CME-75 (truck-mounted) **Hammer Type - Drop:** 140 lb. Auto - 30 in.
Exploration Plunge:	-90 degrees	**Exploration Method:**	Hollow Stem Auger
Weather:		**Auger Diameter:**	8 in. O.D.

BORING LOG B-1

FIELD EXPLORATION

No Coordinates Available
No Elevation Available

Surface Condition: Bottom of Excavated Pit 7-12 ft bgs

Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	TPH (ppm)	Chloride (ppm)	Graphical Log	
40		B-1 35-36.5'	17 in.	2143	708		**Silty SAND (SM)**: red brown, wet, medium dense
45		B-1 45-46.5'	16 in.	2757	ND		**Sandy CLAY (CL)**: very fine to fine sand, red brown, dry, hard
50							
55		B-1 55-56.5		2859	ND		
60							
65							

The exploration was terminated at approximately 56.5 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:
▽ Perched groundwater was observed at approximately 35 ft. below ground surface during drilling.
GENERAL NOTES:

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PROJECT NO..	132881
DRAWN BY:	PD
CHECKED BY:	PR
DATE:	6/21/2013
REVISED:	

BORING LOG B-1

Halcon Beeson - Well 29
Loco Hills
Eddy County, New Mexico

PLATE
B-1
PAGE: 2 of 2

gINT FILE G:\environ\current Work Folder Projects\132681 - Halcon Beeson Injection Line Release\2.0 Technical Information\2.4 - Field Activity Records\borehole Logs\132881_bh.gpj R KLF_STANDARD_GINT_LIBRARY_SR.1.2 GLB [KLF_ENVIRONMENTAL LOG]

Date Begin - End:	6/10/2013	**Drill Company:**	EDI
Logged By:	P. Rust	**Drill Crew:**	C. Krozel, J. Hunt-Lynn
Hor.-Vert. Datum:	Not Available	**Drill Equipment:**	CME-75 (truck-mounted)
Exploration Plunge:	-90 degrees	**Exploration Method:**	Hollow Stem Auger
Weather:		**Auger Diameter:**	8 in. O.D.

Hammer Type - Drop: 140 lb. Auto - 30 in.

BORING LOG B-2

FIELD EXPLORATION

No Coordinates Available
No Elevation Available

Surface Condition: Bottom of Excavated Pit 3-4 ft bgs

Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	TPH (ppm)	Chloride (ppm)	Graphical Log
5		B-2 5-6.5'	18 in.	243	6244	
15		B-2 15-16.5'		332	2896	
25		B-2 25-26.5'	18 in.	375	2896	

Poorly-Graded SAND (SP): fine grained, red brown, moist, medium dense, calcareous and weakly cemented

Clayey SAND (SC): very fine grained to fine grained, red brown, moist, medium dense

CLAY (CL): red brown, moist, firm

Poorly-Graded SAND (SP): fine grained, red brown, moist, medium dense

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PROJECT NO.:	132881
DRAWN BY:	PD
CHECKED BY:	PR
DATE:	6/21/2013
REVISED:	

BORING LOG B-2

Halcon Beeson - Well 29
Loco Hills
Eddy County, New Mexico

PLATE

B-2

Date Begin - End:	6/10/2013	**Drill Company:**	EDI	**BORING LOG B-2**	
Logged By:	P. Rust	**Drill Crew:**	C. Krozel, J. Hunt-Lynn		
Hor.-Vert. Datum:	Not Available	**Drill Equipment:**	CME-75 (truck-mounted)	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Exploration Plunge:	-90 degrees	**Exploration Method:**	Hollow Stem Auger		
Weather:		**Auger Diameter:**	8 in. O.D.		

FIELD EXPLORATION

No Coordinates Available
No Elevation Available

Surface Condition Bottom of Excavated Pit 3-4 ft bgs

Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	TPH (ppm)	Chloride (ppm)	Graphical Log	
40		B-2 35-36.5'	18 in.	228	3136		**Poorly-Graded SAND (SP)**: fine grained, red brown, moist, medium dense
45		B-2 45-46.5'	18 in.	315	ND		**CLAY (CL)**: red brown, moist
50							
55		B-2 55-56.5'	16 in.	148	ND		Very hard at 55 ft bgs
60							
65							

The exploration was terminated at approximately 56.5 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:
Groundwater was not encountered during drilling or after completion.
GENERAL NOTES:

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.:	132881
DRAWN BY:	PD
CHECKED BY:	PR
DATE:	6/21/2013
REVISED:	

BORING LOG B-2

Halcon Beeson - Well 29
Loco Hills
Eddy County, New Mexico

PLATE
B-2

Date Begin - End:	6/10/2013	**Drill Company:**	EDI	**BORING LOG B-3**	
Logged By:	P. Rust	**Drill Crew:**	C. Krozel, J. Hunt-Lynn		
Hor.-Vert. Datum:	Not Available	**Drill Equipment:**	CME-75 (truck-mounted)	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Exploration Plunge:	-90 degrees	**Exploration Method:**	Hollow Stem Auger		
Weather:		**Auger Diameter:**	8 in. O.D.		

FIELD EXPLORATION

No Coordinates Available
No Elevation Available

Surface Condition: Sagebrush over sand dunes

Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	TPH (ppm)	Chloride (ppm)	Graphical Log	
10		B-3 10-11.5'	17 in.	-	ND		**Clayey SAND (SC)**: red brown, dry, medium dense
							CALICHE: pale red, dry, medium dense
15							**Poorly-Graded SAND (SP)**: very fine grained to fine grained, pale red, dry, medium dense, some clay
20		B-3 20-21.5'	16 in.	-	ND		
25							
30		B-3 30-31.5'		-	ND		Very dense at 30 ft bgs

The exploration was terminated at approximately 31.5 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:
Groundwater was not encountered during drilling or after completion.
GENERAL NOTES:

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.:	132881
DRAWN BY:	PD
CHECKED BY:	PR
DATE:	6/21/2013
REVISED:	

BORING LOG B-3

Halcon Beeson - Well 29
Loco Hills
Eddy County, New Mexico

PLATE
B-3
PAGE: 1 of 1

Date Begin - End:	6/11/2013	**Drill Company:**	EDI		**BORING LOG B-4**
Logged By:	P. Rust	**Drill Crew:**	C. Krozel, J. Hunt-Lynn		
Hor.-Vert. Datum:	Not Available	**Drill Equipment:**	CME-75 (truck-mounted)	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Exploration Plunge:	-90 degrees	**Exploration Method:**	Hollow Stem Auger		
Weather:		**Auger Diameter:**	8 in. O.D.		

FIELD EXPLORATION

No Coordinates Available
No Elevation Available

Surface Condition: Sagebrush over sand dunes

Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	TPH (ppm)	Chloride (ppm)	Graphical Log
10		B-4 10-11.5'	15 in.	2423	ND	
20		B-4 20-21.5'	16 in.	2663	ND	
30		B-4 30-31.5'	15 in.	2664	ND	

CALICHE: pale red, dry, very dense

CLAY (CL): red brown, dry, very hard

Poorly-Graded SAND with Silt (SP-SM): very fine grained to fine grained, red brown, dry, very dense

The exploration was terminated at approximately 31.5 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:
Groundwater was not encountered during drilling or after completion.
GENERAL NOTES:

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.:	132881
DRAWN BY:	PD
CHECKED BY:	PR
DATE:	6/21/2013
REVISED:	

BORING LOG B-4

Halcon Beeson - Well 29
Loco Hills
Eddy County, New Mexico

PLATE
B-4
PAGE: 1 of 1

gINT FILE G:\environ\current Work Folder Projects\132881 - Halcon Beeson Injection Line Release\2.0 Technical Information\2.4 - Field Activity Records\borehole Logs\132881_bhl.gpj R:\KLF_STANDARD_GINT_LIBRARY_SR.12.GLB [KLF_ENVIRONMENTAL LOG]

Date Begin - End:	6/11/2013	**Drill Company:**	EDI	**BORING LOG B-5**	
Logged By:	P. Rust	**Drill Crew:**	C. Krozel, J. Hunt-Lynn		
Hor.-Vert. Datum:	Not Available	**Drill Equipment:**	CME-75 (truck-mounted)	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Exploration Plunge:	-90 degrees	**Exploration Method:**	Hollow Stem Auger		
Weather:		**Auger Diameter:**	8 in. O.D.		

FIELD EXPLORATION

No Coordinates Available
No Elevation Available

Surface Condition: Sagebrush over sand dunes

Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	TPH (ppm)	Chloride (ppm)	Graphical Log	
10		B-5 10-11.5'	14 in.	2486	ND		**CALICHE**: pale red, dry, dense
20		B-5 20-21.5'	15 in.	2735	ND		**CLAY (CL)**: red brown, dry, hard, some calcareous nodules
30		B-5 30-31.5	17 in.	2712	ND		**Silty SAND (SM)**: fine grained, red, dry, dense, weakly cemented

The exploration was terminated at approximately 31.5 ft. below ground surface

GROUNDWATER LEVEL INFORMATION:
Groundwater was not encountered during drilling or after completion.
GENERAL NOTES:

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO	132881
DRAWN BY:	PD
CHECKED BY:	PR
DATE:	6/21/2013
REVISED:	

BORING LOG B-5

Halcon Beeson - Well 29
Loco Hills
Eddy County, New Mexico

PLATE
B-5
PAGE: 1 of 1

gINT FILE G:\environ\current Work Folder Projects\132881 - Halcon Beeson Injection Line Release\2 0 Technical Information\2 4 - Field Activity Records\borenole Logs\132881_bhl.gpj R KLF_STANDARD_GINT_LIBRARY_SR 1 2 GLB [KLF_ENVIRONMENTAL LOG]

APPENDIX B

Soil Analytical Data

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

June 24, 2013

Eileen Shannon
Kleinfelder
9019 Washington NE Building A
Albuquerque, NM 87113
TEL: (505) 344-7373
FAX: (505) 344-1711

RE: Halcon Well 29 OrderNo.: 1306520

Dear Eileen Shannon:

Hall Environmental Analysis Laboratory received 13 sample(s) on 6/12/2013 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 qualifers 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.

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1306520**
Date Reported: **6/24/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kleinfelder
Project: Halcon Well 29
Lab ID: 1306520-001 **Matrix:** SOIL

Client Sample ID: B-1 @ 5'
Collection Date: 6/11/2013 12:35:00 PM
Received Date: 6/12/2013 4:44:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/17/2013 12:03:09 PM	7884
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/17/2013 12:03:09 PM	7884
Surr: DNOP	87.2	63-147		%REC	1	6/17/2013 12:03:09 PM	7884
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/14/2013 7:13:37 PM	7909
Surr: BFB	94.0	80-120		%REC	1	6/14/2013 7:13:37 PM	7909

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kleinfelder
Project: Halcon Well 29
Lab ID: 1306520-002 **Matrix:** SOIL

Client Sample ID: B-1 @ 15'
Collection Date: 6/11/2013 1:00:00 PM
Received Date: 6/12/2013 4:44:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	4500	300		mg/Kg	200	6/18/2013 10:53:06 PM	7945

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kleinfelder
Project: Halcon Well 29
Lab ID: 1306520-003 **Matrix:** SOIL

Client Sample ID: B-1 @ 55'
Collection Date: 6/11/2013 4:40:00 PM
Received Date: 6/12/2013 4:44:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/17/2013 12:24:50 PM	7907
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/17/2013 12:24:50 PM	7907
Surr: DNOP	86.7	63-147		%REC	1	6/17/2013 12:24:50 PM	7907
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/14/2013 7:42:16 PM	7909
Surr: BFB	93.7	80-120		%REC	1	6/14/2013 7:42:16 PM	7909
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	46	1.5		mg/Kg	1	6/17/2013 7:42:11 PM	7945

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kleinfelder
Project: Halcon Well 29
Lab ID: 1306520-004 **Matrix:** SOIL

Client Sample ID: B-2 @ 5'
Collection Date: 6/10/2013 9:00:00 AM
Received Date: 6/12/2013 4:44:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	5900	300		mg/Kg	200	6/18/2013 11:05:30 PM	7945

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kleinfelder
Project: Halcon Well 29
Lab ID: 1306520-005 **Matrix:** SOIL

Client Sample ID: B-2 @ 25'
Collection Date: 6/10/2013 10:00:00 AM
Received Date: 6/12/2013 4:44:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/17/2013 1:30:05 PM	7907
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/17/2013 1:30:05 PM	7907
Surr: DNOP	86.1	63-147		%REC	1	6/17/2013 1:30:05 PM	7907
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/14/2013 11:02:34 PM	7909
Surr: BFB	93.5	80-120		%REC	1	6/14/2013 11:02:34 PM	7909

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kleinfelder
Project: Halcon Well 29
Lab ID: 1306520-006 **Matrix:** SOIL

Client Sample ID: B-2 @ 55'
Collection Date: 6/10/2013 12:10:00 PM
Received Date: 6/12/2013 4:44:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/17/2013 1:51:56 PM	7907
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/17/2013 1:51:56 PM	7907
Surr: DNOP	86.0	63-147		%REC	1	6/17/2013 1:51:56 PM	7907
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/14/2013 11:31:14 PM	7909
Surr: BFB	93.5	80-120		%REC	1	6/14/2013 11:31:14 PM	7909
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	45	1.5		mg/Kg	1	6/17/2013 8:31:50 PM	7945

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kleinfelder
Project: Halcon Well 29
Lab ID: 1306520-007 **Matrix:** SOIL

Client Sample ID: B-3 @ 10'
Collection Date: 6/10/2013 1:45:00 AM
Received Date: 6/12/2013 4:44:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/17/2013 3:34:31 PM	7907
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/17/2013 3:34:31 PM	7907
Surr: DNOP	81.1	63-147		%REC	1	6/17/2013 3:34:31 PM	7907
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/14/2013 11:59:56 PM	7909
Surr: BFB	93.5	80-120		%REC	1	6/14/2013 11:59:56 PM	7909
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	4.0	1.5		mg/Kg	1	6/17/2013 8:56:39 PM	7945

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kleinfelder
Project: Halcon Well 29
Lab ID: 1306520-008 **Matrix:** SOIL

Client Sample ID: B-3 @ 30'
Collection Date: 6/10/2013 4:10:00 PM
Received Date: 6/12/2013 4:44:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/17/2013 3:56:07 PM	7907
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/17/2013 3:56:07 PM	7907
Surr: DNOP	81.8	63-147		%REC	1	6/17/2013 3:56:07 PM	7907
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/15/2013 12:28:31 AM	7909
Surr: BFB	93.8	80-120		%REC	1	6/15/2013 12:28:31 AM	7909
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	2.7	1.5		mg/Kg	1	6/17/2013 9:21:28 PM	7945

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kleinfelder
Project: Halcon Well 29
Lab ID: 1306520-009 **Matrix:** SOIL

Client Sample ID: B-4 @ 10'
Collection Date: 6/11/2013 10:10:00 AM
Received Date: 6/12/2013 4:44:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: **JRR**
Chloride	5.6	1.5		mg/Kg	1	6/17/2013 10:11:06 PM	7945

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kleinfelder
Project: Halcon Well 29
Lab ID: 1306520-010 **Matrix:** SOIL

Client Sample ID: B-4 @ 20'
Collection Date: 6/11/2013 10:30:00 AM
Received Date: 6/12/2013 4:44:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/17/2013 4:39:43 PM	7907
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/17/2013 4:39:43 PM	7907
Surr: DNOP	81.8	63-147		%REC	1	6/17/2013 4:39:43 PM	7907
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/15/2013 12:57:08 AM	7909
Surr: BFB	94.1	80-120		%REC	1	6/15/2013 12:57:08 AM	7909

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kleinfelder
Project: Halcon Well 29
Lab ID: 1306520-011
Matrix: SOIL
Client Sample ID: B-4 @ 30'
Collection Date: 6/11/2013 11:00:00 AM
Received Date: 6/12/2013 4:44:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/19/2013 11:42:04 AM	7907
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/19/2013 11:42:04 AM	7907
Surr: DNOP	70.0	63-147		%REC	1	6/19/2013 11:42:04 AM	7907
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/15/2013 1:25:41 AM	7909
Surr: BFB	92.8	80-120		%REC	1	6/15/2013 1:25:41 AM	7909
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	30	1.5		mg/Kg	1	6/18/2013 11:17:55 PM	7946

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kleinfelder
Project: Halcon Well 29
Lab ID: 1306520-012 **Matrix:** SOIL

Client Sample ID: B-5 @ 10'
Collection Date: 6/11/2013 7:30:00 AM
Received Date: 6/12/2013 4:44:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/18/2013 7:52:38 PM	7907
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/18/2013 7:52:38 PM	7907
Surr: DNOP	95.1	63-147		%REC	1	6/18/2013 7:52:38 PM	7907
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/15/2013 1:54:12 AM	7909
Surr: BFB	93.0	80-120		%REC	1	6/15/2013 1:54:12 AM	7909
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	4.4	1.5		mg/Kg	1	6/18/2013 11:30:19 PM	7946

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Kleinfelder
Project: Halcon Well 29
Lab ID: 1306520-013 **Matrix:** SOIL

Client Sample ID: B-5 @ 30'
Collection Date: 6/11/2013 8:30:00 AM
Received Date: 6/12/2013 4:44:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/17/2013 5:45:15 PM	7907
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/17/2013 5:45:15 PM	7907
Surr: DNOP	64.2	63-147		%REC	1	6/17/2013 5:45:15 PM	7907
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/15/2013 2:22:51 AM	7909
Surr: BFB	94.4	80-120		%REC	1	6/15/2013 2:22:51 AM	7909
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	53	1.5		mg/Kg	1	6/18/2013 11:42:44 PM	7946

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1306520**

24-Jun-13

Client: Kleinfelder
Project: Halcon Well 29

Sample ID: **MB-7945** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **7945** RunNo: **11366**
Prep Date: **6/17/2013** Analysis Date: **6/17/2013** SeqNo: **321063** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-7945** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **7945** RunNo: **11366**
Prep Date: **6/17/2013** Analysis Date: **6/17/2013** SeqNo: **321064** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.8	90	110			

Sample ID: **MB-7946** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **7946** RunNo: **11366**
Prep Date: **6/17/2013** Analysis Date: **6/17/2013** SeqNo: **321113** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-7946** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **7946** RunNo: **11366**
Prep Date: **6/17/2013** Analysis Date: **6/17/2013** SeqNo: **321114** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.7	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1306520

24-Jun-13

Client: Kleinfelder

Project: Halcon Well 29

Sample ID: MB-7884	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 7884	RunNo: 11274
Prep Date: 6/12/2013	Analysis Date: 6/13/2013	SeqNo: 319035 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	63	147			

Sample ID: LCS-7884	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 7884	RunNo: 11274
Prep Date: 6/12/2013	Analysis Date: 6/13/2013	SeqNo: 319036 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.6	77.1	128			
Surr: DNOP	5.4		5.000		108	63	147			

Sample ID: MB-7907	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 7907	RunNo: 11331
Prep Date: 6/13/2013	Analysis Date: 6/17/2013	SeqNo: 320321 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.3		10.00		83.2	63	147			

Sample ID: LCS-7907	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 7907	RunNo: 11331
Prep Date: 6/13/2013	Analysis Date: 6/17/2013	SeqNo: 320322 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.4	77.1	128			
Surr: DNOP	4.4		5.000		87.5	63	147			

Sample ID: 1306520-003AMS	SampType: MS	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: B-1 @ 55'	Batch ID: 7907	RunNo: 11331
Prep Date: 6/13/2013	Analysis Date: 6/17/2013	SeqNo: 320449 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.10	0	79.1	61.3	138			
Surr: DNOP	3.9		5.010		78.7	63	147			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2 for VOA and TOC only.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1306520**

24-Jun-13

Client: Kleinfelder

Project: Halcon Well 29

Sample ID: **1306520-003AMSD** SampType: **MSD** TestCode: **EPA Method 8015D: Diesel Range Organics**

Client ID: **B-1 @ 55'** Batch ID: **7907** RunNo: **11331**

Prep Date: **6/13/2013** Analysis Date: **6/17/2013** SeqNo: **320523** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	49.90	0	84.6	61.3	138	6.26	20	
Surr: DNOP	4.1		4.990		82.5	63	147	0	0	

Sample ID: **LCS-7942** SampType: **LCS** TestCode: **EPA Method 8015D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **7942** RunNo: **11358**

Prep Date: **6/17/2013** Analysis Date: **6/18/2013** SeqNo: **321057** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.8		5.000		75.2	63	147			

Sample ID: **MB-7942** SampType: **MBLK** TestCode: **EPA Method 8015D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **7942** RunNo: **11358**

Prep Date: **6/17/2013** Analysis Date: **6/18/2013** SeqNo: **321058** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.3		10.00		73.4	63	147			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1306520**

24-Jun-13

Client: Kleinfelder

Project: Halcon Well 29

Sample ID: **MB-7909**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **7909**	RunNo: **11327**
Prep Date: **6/13/2013**	Analysis Date: **6/14/2013**	SeqNo: **320050** 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	950		1000		94.9	80	120			

Sample ID: **LCS-7909**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **7909**	RunNo: **11327**
Prep Date: **6/13/2013**	Analysis Date: **6/14/2013**	SeqNo: **320051** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	62.6	136			
Surr: BFB	1000		1000		102	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Klein | Work Order Number: 1306520 | RcptNo: 1

Received by/date: AG 06/12/13

Logged By: **Anne Thorne** 6/12/2013 4:44:00 PM Anne Thorne

Completed By: **Anne Thorne** 6/13/2013 Anne Thorne

Reviewed By: IO 06/13/13

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	10.9	Good	Not Present			

Chain-of-Custody Record

Client: Kleinfelder

Mailing Address: 9019 Washington St. NE Bldg 4
Albuquerque, NM 87113

Phone #: (505) 344 7373

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Halcon Well 2-9

Project #: 132881

~~Eileen Shannon~~

Project Manager: Eileen Shannon

Sampler: P. Rust

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.5

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1305520	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Cl				Air Bubbles (Y or N)
6/11/13	1235	Soil	B-1@5ft	Jar/1	None	-001			X													
6/11/13	1300		B-1@15ft			-002												X				
6/11/13	1640		B-1@55ft			-003			X									X				
6/10/13	0900		B-2@5ft			-004												X				
6/10/13	1000		B-2@25ft			-005			X													
6/10/13	1210		B-2@55ft			-006			X									X				
6/10/13	1545		B-3@10ft			-007			X									X				
6/10/13	1610		B-3@30ft			-008			X									X				
6/11/13	010		B-4@10ft			-009												X				
6/11/13	1030		B-4@20ft			-010			X													
6/11/13	1100		B-4@30ft			-011			X									X				
6/11/13	0750	↓	B-5@10ft	↓	↓	-012			X									X				

Date	Time	Relinquished by:	Received by:	Date	Time
6/12/13	1644			06/12/13	1644
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

Page 1 of 2, Temp approved

Chain-of-Custody Record

Client: Kleinfelder

Mailing Address: 9019 Washington St. NE Bldg A
Albuquerque, NM 87113

Phone #: (505) 344-7373

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: Halcon Well 29

Project #: 132881

Project Manager: Eileen Shannon

Sampler: P. Rust

On Ice: ☒ Yes ☐ No

Sample Temperature: 0.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1306520	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Cl⁻				Air Bubbles (Y or N)
6/11/13	0830	Soil	B-5 @ 30ft	Jar/1	None	-013			X									X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
6/12/13	1644			06/12/13	1644
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

Page 2 of 2, Temp approved

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

KLEINFELDER
Bright People. Right Solutions.

DOCUMENT TRANSMITTAL FORM

TO:	Mr. Mike Bratcher NMOCD District 2 811 S First Street Artesia, NM 88210	**PAGE**	1	**OF**	1
		TRANSMITTAL DATE:	8/27/2013		
		TRANSMITTAL DCN:	132881.2-ALB13TS001		
RETURN RESPONSES/COMMENTS TO:		Eileen Shannon			
RETURN RESPONSES/COMMENTS BY:		9/10/2013			

PROJECT NO.:	132881	**PROJECT NAME:**	Halcòn - Beeson Remediation
ACTIVITY/DESCRIPTION:	Report		

DOCUMENTS BEING TRANSMITTED

ITEM	*REV.*	*PAGES*	*DATE*	*DESIGNATOR*
Results of Phase II Investigation and Work Plan for Closure	0	39	8/27/2013	132881.2-ALB13RP001
--	--	--	--	--
--	--	--	--	--

INSTRUCTIONS/REMARKS

Copies to:
Jim Amos, Drew Hall & Steve Milinichik

- ☐ Mark previous issues "obsolete", "superceded", or "uncontrolled"
- ☐ Destroy previous affected material
- ☐ Return old material with this record
- ☒ New issue (no previous copies received)
- ☐ Replace with revised/new material
- ☐ Maintain as controlled copy
- ☐ Not Applicable

RECEIPT AND READ ACKNOWLEDGEMENT
Please Sign and Return To:

ADMINISTRATIVE SUPERVISOR

9019 WASHINGTON NE, BUILDING A
ALBUQUERQUE, NM 87113
FAX: 505.344.1711 OR KKNIGHTS@KLEINFELDER.COM

RECEIVED
AUG 30 2013
NMOCD ARTESIA

CLIENT RECEIPT	PRINT NAME	SIGNATURE	DATE
Complete & Return this page via Fax/Mail/Email			

KLEINFELDER RECEIPT	PRINT NAME	SIGNATURE	DATE
Complete this section upon receipt from client			