

BOPCO

PLU -409H

CLOSURE REPORT

2RP-2135

API No. 30-015-41136

Release Date: 12/25/2013

Unit Letter B, Section 28, Township 24 South, Range 31 East

June 16, 2014

Prepared by:

Environmental Department
Diversified Field Service, Inc.
3412 N. Dal Paso
Hobbs, NM 88240
Phone: (575)964-8394
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PLU #409

1 Site Objectives

BOPCO has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located south east of Carlsbad NM, in Unit letter B, Township 24 South, and Range 31E. The site resulted from an 8" flange break down on the discharge side of the water transfer pump. The leak released produced water onto approximately 48,633 square feet of the lease road, traveled north, exiting the lease road onto the pasture area, and road area east of the Buck Jackson lease road forming a split. The valve on the discharge side of the pump was closed stopping the flow of water. Approximately 180bbls of produced water was released with recovering 100bbls of produced water. The C-141 was submitted to the NMOCD on December 26, 2013 (Appendix I). According to the U.S. Geological Survey and the NM Office of the State Engineer; the depth to groundwater in the area averages 265 foot below ground surface, therefore there is no eminent danger of groundwater impact, threat to natural habitat or human life.

2 SITE ACTIVITIES

On December 30, DFSI personnel entered the site to collect surface soil samples from the site and perform an initial site assessment. The samples were field screened for chloride and these indicated that all surface samples were elevated in chlorides with the exception of SP5, whereby two consecutive field tests resulted in chloride levels at less than 1000 mg/kg. The highest level of Chloride analyses were at the SP1, SP2 (point of release) and SP3 where fluids exited the lease road to the pasture. This was a low lying area where a pooling affect took place allowing a greater saturation, therefore SP3 returned a result of 38,263 mg/kg for chloride on the field analysis at surface.

On January 06, 2014 DFSI personnel revisited the site and further delineated the source of the spill area, as well as where the spill exited the lease road. There were also samples collected from the interior wall of the south leg as can be seen on the site diagram. These were sent to a commercial laboratory for analysis. The results returned non-detectable limits for BTEX, DRO and GRO were <10.0 mg/kg.

On January 07, 2014 personnel again visited the site for confirmation samples of the end area of the north leg and south leg respectively, whereby these were labeled SP10, North, East,

South and Bottom (Bottom is defined as 3'bgs for north and 4'bgs for south). These were sent to a commercial lab in order to confirm the ending of the impacted area. The results confirmed that SP10 located at the wall north, and immediately south of the buried lines were non-detectable for chlorides. Furthermore, SP10 at the east wall of the north leg also returned as non-detectable for chlorides. SP10 located in the end of the south leg returned an acceptable level of chloride, in that chloride was at 48 mg/kg., likewise with the base of these sample points known as the floor or bottom. Therefore, determining that this was the end of the traversed spill area.

On January 08, 2014 DFSI personnel revisited the site to delineate SP8 and SP9 of both the north and south wall. SP8 of the north wall, as well as the bottom sample, located just south of the buried line returned non-detectable levels for chlorides, as well as BTEX (Appendix IV). SP9 of both the north and south wall, as well as the bottom sample for the center of the spill area of the south leg 4'bgs, returned acceptable levels of chlorides at <16.0 mg/kg and BTEX <0.300.

On January 09, 2014 DFSI personnel returned to the site in order to further delineate the sidewall samples for SP6 and SP7. These were simultaneously field tested until acceptable results were obtained. Representative soil samples were submitted to a commercial laboratory for confirmation. SP7 at the north wall just south of the buried line returned chloride results of 64 mg/kg. SP7 at the south wall returned results of chloride at <16mg/kg, whereas the bottom sample for the south leg returned results of 336mg/kg in chloride at 3'bgs.

On January 15, 2014 DFSI personnel retrieved a confirmation sample from the bottom of the excavation floor at 3'bgs for SP1 of the south leg. This representative sample was sent to the commercial laboratory for confirmation. The analysis returned a result of 16mg/kg for chloride and non-detectable levels for GRO and DRO.

On January 22, 2014 DFSI personnel returned to the area of the leak source, known as SP1NW, SP1SW, and SP1B respectively. A representative sample for the wall of the excavation, as well as the bottom of the excavated area at 3'bgs were retrieved and sent to a commercial laboratory for confirmation. The analysis revealed acceptable levels of chloride at <16 mg/kg, BTEX <.300 mg/kg, and DRO, GRO were non-detectable.

NMOCD and BLM representatives approved backfill of the excavation. A total of 3706.8 tons of contamination was hauled to an approved disposal site. DFSI backfilled the pasture area with 2,214 tons of imported topsoil from an NMOCD approved facility. BOPCO provided the remainder of topsoil, and caliche from various other sundry sites. The area was then contoured to the surrounding landscape.

3 Site Ranking Criteria

Description	Ranking Score
Depth to Ground Water	0
Wellhead Protection Area	0
Distance to Surface Water Body	0

With the Site Ranking of -0-, therefore the remediation action level that may be required for the above ranking is as follows:

Benzene – 10ppm (mg/kg)
BTEX – 50ppm (mg/kg)
TPH – 5000ppm (mg/kg)
Chlorides – 1000ppm (mg/kg)

4 Conclusion

According to the U.S. Geological Survey and the NM Office of the State Engineer, depth to groundwater in the area averages greater than 265' bgs (Appendix III). Based on the removal of soils containing elevated chloride and visual staining at the site, BOPCO respectfully requests the closure of the regulatory file for the PLU #409.

Appendix I

INITIAL FORM C-141

Diversified Field Service, Inc.
3412 N. Dal Paso
Hobbs, NM 88240
(575) 964-8394

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

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

Form C-141
BLM Copy 12/27/13 Revised August 8, 2011
Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Name of Company: BOPCO, L.P.		Contact: Tony Savoie	
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220		Telephone No. 575-887-7329	
Facility Name: PLU-409H Spill location is 2848 ft. S.W. of the PLU-409H		Facility Type: Exploration and Production	
Surface Owner: Federal		Mineral Owner: Federal	API No. 30-015-41136

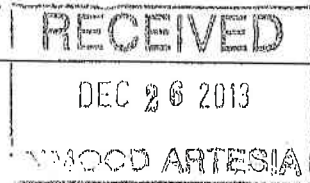
LOCATION OF RELEASE

Unit Letter B	Section 28	Township 24S	Range 31E	Feet from the 263	North/South Line North	Feet from the 2123	East/West Line East	County Eddy
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Latitude N 32.194714 Longitude W 103.780923

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release: 180 bbls	Volume Recovered: 100 bbls
Source of Release: Flange failure on the water transfer pump	Date and Hour of Occurrence: 12/25/13 Time approximately	Date and Hour of Discovery: 12/25/13 at 8:30 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD emergency #104 and BLM	
By Whom? Tony Savoie	Date and Hour: 12/25/13 at 9:20 a.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		



Describe Cause of Problem and Remedial Action Taken.* While fracing the PLU-409H an 8" flange broke on the discharge side of the water transfer pump. The pump was shut down and the valve on the discharge of the pump was closed. Vacuum trucks were standing by during the water transfer and were immediately dispatched to the spill location. The lines were switched on the pump and the water transfer continued.

Describe Area Affected and Cleanup Action Taken.* The spill impacted approximately 40,600 sq.ft. of the Buck Jackson caliche road and approximately 8,600 sq.ft. of pasture area at the point of release and where the water ran off the road way and into the pasture. The final remediation will comply with the NMOCD and BLM remediation guidelines.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature:		OIL CONSERVATION DIVISION	
Printed Name: Tony Savoie		Approved by Environmental Specialist:	
Title: Waste Management and Remediation Specialist	Approval Date:	Expiration Date:	
E-mail Address: tasavoie@basspet.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 12/26/13	Phone: 432-556-8730		

* Attach Additional Sheets If Necessary

Appendix II

GROUNDWATER DATA

Diversified Field Service, Inc.
3412 N. Dal Paso
Hobbs, NM 88240
(575) 964-8394

DEPTH TO GROUNDWATER

BOPCO PLU #409

UL: M

Sec: 22

T: 24S

R: 31E

Groundwater Depth: ~265 ft. averaged

● = NM Office of the State Engineer

● = U.S. Geological Survey (unknown well)

✕ = Site Location

NMOCD GW trend map - 350 to 375 ft bgs

Date: 01/24/2014

By: Rebecca Pons

	85' JM Trst COM 23S 30E 440' BLM STK	354' S Labs MON ● ● ● 168' USBLM STK ● 125' JM Trst STK 23S 31E	● 400' Brininstool Ranch 23S 32E	
	● 186' M&M Cattle Co. STK 24S 30E	● 400' CW McDonald STK 24S 31E ✕	● 150' Texaco/PRO, GRR&CM/IRR ● 205' Com of Pub Lands PRO 24S 32E	
	25S 30E	25S 31E ● 390' BJT STK	25S 32E	

Appendix III

EXCAVATION PLAT

Diversified Field Service, Inc.
3412 N. Dal Paso
Hobbs, NM 88240
(575) 964-8394

**BOPCO, PLU 409 FULL
UL/B, Sec. 28 T24S R31E
Eddy County, NM
Drafted By: Lance Crenshaw, 6-11-14**



At source, excavation was completed to 3' bgs. Buck Jackson Rd. was scraped 1' bgs until clean.

Spill Area:
48,633 sq. ft.



Legend

▲ Sample Points
★ Source

Pipeline

Type

— Above Ground Line
--- Buried Line

Spill

<all other values>

Spill_Media

Oil and Produced H2O
 Oil
 Other
 Produced Water

Spill

<all other values>

Spill_Media

Oil and Produced H2O
 Oil
 Other
 Produced Water

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, swisstopo, and the GIS User Community

Excavation Plat

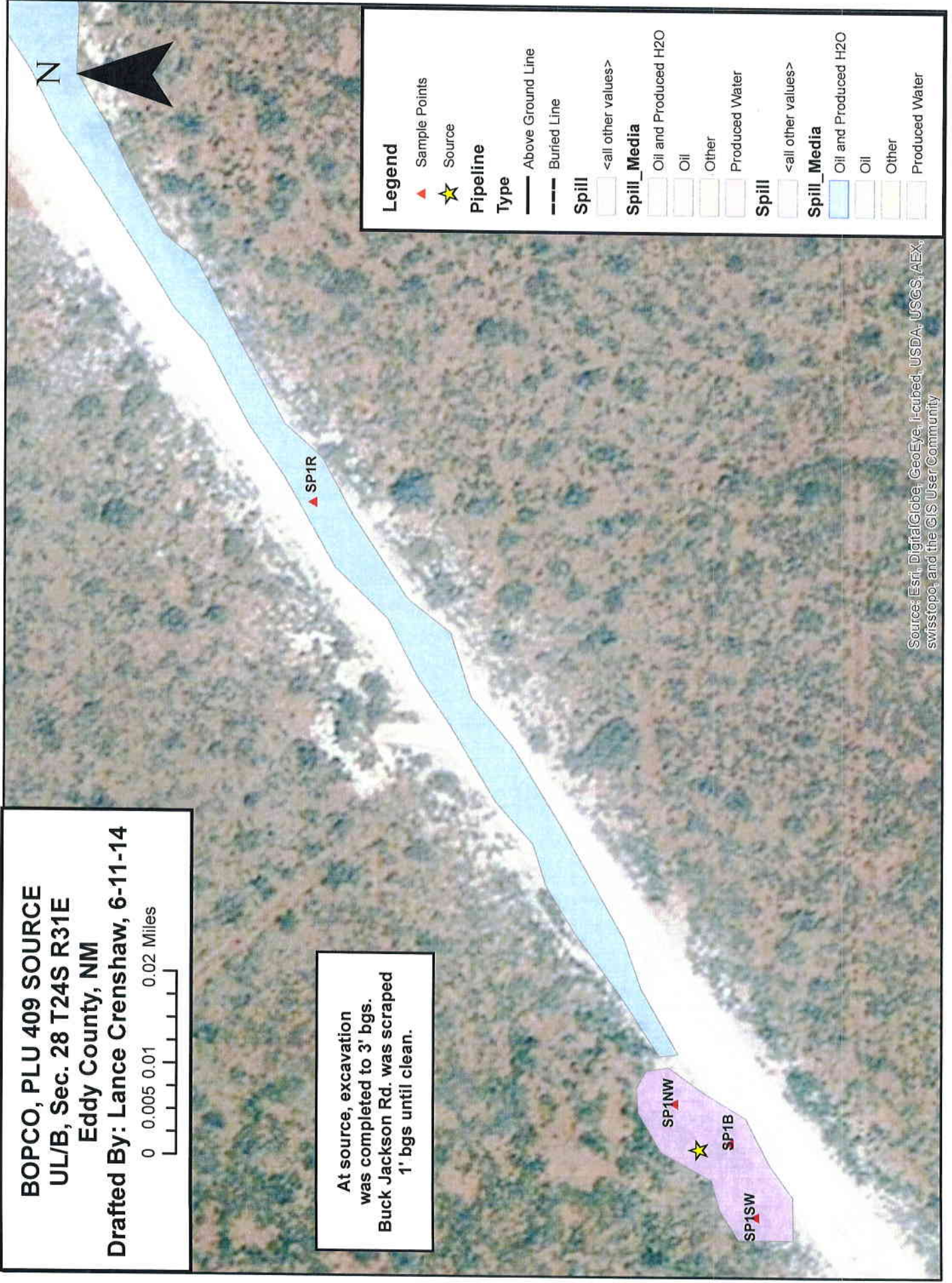
BOPCO, PLU 409 SOURCE
UL/B, Sec. 28 T24S R31E

Eddy County, NM

Drafted By: Lance Crenshaw, 6-11-14

0 0.005 0.01 0.02 Miles

At source, excavation
 was completed to 3' bgs.
 Buck Jackson Rd. was scraped
 1' bgs until clean.



Source: Esri, DigitalGlobe, GeoEye, I-cubed, USDA, USGS, AEX, swisstopo, and the GIS User Community

Appendix IV

FIELD NOTES

Diversified Field Service, Inc.
3412 N. Dal Paso
Hobbs, NM 88240
(575) 964-8394

RU # 409
frac Leak

Bopco

12-30-13

sample ID	g. soil	g water	ml sample	AgN ₃	CL	Pid	time
SP1-surface	16	40	10	29.32	73277	2.1	1:25
SP1-2ft	16	40	10	3.39	8472	.5	1:33
SP1-3ft	16	40	10	2.01	4,998	n/a	1:40
SP2-surface	16	40	10	52.63	131,534	.6	1:30
SP2-2ft	16	40	10	5.15	12871	.5	1:34
SP2-3ft	16	40	10	1.12	2,799	n/a	1:45
SP3-surface	16	40	10	15.31	38263	n/a	9:35
SP3-2ft	16	40	10	0.48	1199	n/a	11:30
SP3-3ft	16	40	10	0.39	974	n/a	1:50
SP4-surface	16	40	10	13.00	32489	n/a	9:40
SP4-2ft	16	40	10	0.80	1999	n/a	11:20
SP4-3ft	16	40	10	0.15	374	n/a	1:40
No PID - windy, breezy conditions							
SP1-Road surface	16	40	10	3.71	9272	n/a	10:00
SP2-Road surface	16	40	10	3.31	8272	n/a	10:05
SP3-Road surface	16	40	10	4.0	9996	n/a	10:10
SP4-Road surface	16	40	10	3.0	7,197	n/a	10:15
SP5-Road surface	16	40	10	0.35	874	n/a	10:20
SP6-Road surface	16	40	10			n/a	11:30
SP7-Road surface	16	40	10				
SP1@4'	16	40	10	0.09	224		1:45
SP2@4'	16	40	10	0.11	274		1:30
SP3@4'	16	40	10	0.55	1374		1:55
SP3@5'	16	40	10	0.87	2174		2:00
SP3@6'	16	40	10	.48	1199		2:10
SP3@7'	16	40	10	.38	949		2:20
SP3@8'	16	40	10	.21	524		3:00

Note - Jody has not mentioned any samples taken to lab

PLU # 409

Bapco

1-2-14

1-2-14							
Sample ID	g. water	mL sample	Ag. 3	CL	PI D	Time	
SP5@surf.	16	40	10		n/a	10:00	
Sample ID	g. soil	g. water	mL sample	Ag. 3	CL	PI D	Time
SP5@surface	16	40	10	0.06	399	n/a	10:00
SP5@1"	16	40	10	0.02	49	n/a	11:30
SP6@surface	16	40	10	3.25	8122		12:00
SP6@2"	16	40	10	0.09	224		1:45
SP7@surface	16	40	10	3.29	8222		12:05
SP8@surface	16	40	10	3.75	9372		12:20
SP9@surface	16	40	10	3.6	8997		12:30
SP10@surface	16	40	10	3.56	8897		12:40
SP DeconLn	16	40	10	0.21	524		1:30

PLU 409

BOPCO

1-6-14

Sample ID	g/sec	g/min	ml sample	Agms	CL	PID	Time
SP10@2'	16	40	10	0.24	599	N/A	10:44
SP10@4'	16	40	10	0.08	199	N/A	10:55
SP9@2'	16	40	10	0.03	74	n/a	11:00
SP9@4'	16	40	10	0.08	199	n/a	11:15
SP8@2'	16	40	10	3.6	899	n/a	11:20
SP8@4'	16	40	10	.05	124	n/a	11:25
SP8@5'	16	40	10	-0.1	24	n/a	11:45
SP7@2'	16	40	10	0.76	1899	n/a	1:30
SP7@4'	16	40	10	0.08	199	n/a	1:35
SP1@WALL	16	40	10	0.03	74	n/a	1:40
SP2@WALL	16	40	10	0.08	199	n/a	1:45
SP3@MED	16	40	10	0.07	174	n/a	1:50
SP4@WALL	16	40	10	0.08	199	n/a	2:00
SP5@WALL	16	40	10	0.03	74	n/a	2:10
SP6@MED	16	40	10	0.07	174	n/a	2:15

PLU 1/09

BOPCO

1-7-14

Sample ID	wt/soil	g/water	mL Sample	Agno ³	CL	PID	Time
SP100 wall 1 N 16	16	40	10	.07	174	n/a	10:20
SP100 wall 2 E 16	16	40	10	.07	174	n/a	10:25
SP100 wall 3 S 16	16	40	10	1.43	3573	n/a	10:25
SP100 wall 4 B 16	16	40	10	.06	149	n/a	10:30
SP100 wall 5 S 16	16	40	10	.08	199	n/a	

SP9 @ Bottom 2'		40	10	.09	224.9	n/a	
SP9 @ Swall		40	10	.14	349.8	n/a	
SP9 @ N Wall		40	10	.09	224.9	n/a	

1-8-14

SP8 @ Bottom 2'		40	10	.06	149	n/a	7:41
SP8 @ Swall		40	10	.1	249.9	n/a	7:43
SP8 @ N Wall		40	10	.07	174	n/a	7:45

PLU 409

Bopco

1-8-14

Sample ID	g. soil	g. water	ml sample	Agar ³	CL	PTO	fine
SP7-Bot	16	40	10	.30	749	n/a	3.00
SP7-Swall	16	40	10	3.61	9022	n/a	3.00
SP7-Nwall	16	40	10	3.09	7722	n/a	3.00

Note ★ Brandon from Agave stated he did not have to be present for excavation. He arrived on location at 12:30 and upon observation, said to go ahead & proceed with excavation.



PLU 409

Bopco

1-9-14

Sample ID	g soil	g wafer	ml sample	Ag m ³	CL	PID	Time
SP7@Swall	16	40	10	2.16	5398	n/a	9:00
SP7@Swall	16	40	10	0.03	74	n/a	9:30
SP7@Swall							
SP7@Swall	16	40	10	4.0	9996	n/a	9:40
SP7@Swall	16	40	10	3.20	8222	n/a	9:45
SP7@Swall	16	40	10	0.04	99	n/a	10:02
SP6@Swall	16	40	10	0.09	224	n/a	1:00
SP6@Swall	16	40	10	0.04	99	n/a	1:15
SP6@Bot	16	40	10	0.04	99	n/a	1:20

NU 40a

Burco

1-10-14

Sample ID	g soil	g water	ml sample	Agno ³	CL	PID	Time
SP50@Wall	16	46	10	.16	399	n/a	9:00
SP50@Wall	16	40	10	.19	474	n/a	9:20
SP50@Bot	16	40	10	.09	224	n/a	9:30
SP40@Wall	16	40	10	.07	174	n/a	10:30
SP40@Wall	16	40	10	.09	224	n/a	10:35
SP40@Bot	16	40	10	.09	224	n/a	10:40
SP40@Wall	16	40	10	.03	74	n/a	10:56

PLU 409

Bopco

1-15-14

Sample ID	g. soil	g. water	mL sample	App 3	CL	dt 10	Time
SPI pipe	16	40	10	0.08	199	n/a	10:30
SPI @ Bot	16	40	10	0.09	224	n/a	10:35
SPI @ Soil	16	40	10	0.10	244	n/a	10:40
SPI @ Bot 2	16	40	10	0.09	224	n/a	10:45

RU 400

BOPCO

1-20-14

Sample ID	g. soil	g. number	ml. sample	Agno ³	CL	PID	Time
SP Road 1' ✓	16	40	10	0.21	524	n/a	10:00
SP Road 2' ✓	16	40	10	0.19	474	n/a	10:05
SP 5' wall	16	40	10			n/a	10:20
SP 20' Wall	16	40	10	0.17	424	n/a	10:25
SP 15' wall	16	40	10	0.15	374	n/a	10:30

NOTE - Sample 2 at south wall was still dirty at time of report. Waiting on more excavation for a clean sample.

NW 400

Bopco

1-22-14

Sample ID	g soil	g water	mL sample	Agne ³	CL	PTD	Time
SP1 @ Naall	16	40	10	.20	499	n/a	9:30
SP1 @ Swail	16	40	10	.11	274	n/a	9:35
SP1 @ B	16	40	10	.22	549	n/a	9:40

Appendix V

SOIL CHEMISTRY TABLE

Diversified Field Service, Inc.
3412 N. Dal Paso
Hobbs, NM 88240
(575) 964-8394

PLU-409H Soil Chemistry Table Insitu

Date	Lab ID	Sample ID	TPH MG/KG	BTEX MG/KG	Chloride MG/KG	Status
1/6/2014	H400036	SP1 at wall	<10	<0.300	N/S	Insitu
1/6/2014	H400036	SP2 at wall	<10	<0.300	N/S	Insitu
1/6/2014	H400036	SP3 at mid	<10	<0.300	N/S	Insitu
1/6/2014	H400036	SP4 at wall	<10	<0.300	N/S	Insitu
1/6/2014	H400036	SP5 at wall	<10	<0.300	N/S	Insitu
1/6/2014	H400036	SP6 at mid	<10	<0.300	N/S	Insitu
1/7/2014	H400044	SP10 at wall N			<16	Insitu
1/7/2014	H400044	SP10 at wall E			<16	Insitu
1/7/2014	H400044	SP10 at wall S			48	Insitu
1/7/2014	H400044	SP10 at wall B	<10	<0.300	48	Insitu
1/8/2014	H400063	SP8 at bottom	<10	<0.300	<16	Insitu
1/8/2014	H400063	SP8 at s wall			<16	Insitu
1/8/2014	H400063	SP8 at n wall			<16	Insitu
1/8/2014	H400063	SP9 at bottom	<10	<0.300	<16	Insitu
1/8/2014	H400063	SP9 at s wall			<16	Insitu
1/8/2014	H400063	SP9 at n wall			<16	Insitu
1/9/2014	H400083	SP7 at s wall			<16	Insitu
1/9/2014	H400083	SP7 at n wall			64	Insitu
1/9/2014	H400083	SP7 at bottom			336	Insitu
1/9/2014	H400083	SP6 at s wall			<16	Insitu
1/9/2014	H400083	SP6 at n wall			<16	Insitu
1/9/2014	H400083	SP6 at bottom			176	Insitu
1/10/2014	H400093	SP4 at n wall			<16	Insitu
1/10/2014	H400093	SP4 at s wall			<16	Insitu
1/10/2014	H400093	SP4 at w wall			<16	Insitu
1/10/2014	H400093	SP4 at bottom			<16	Insitu
1/10/2014	H400093	SP5 at n wall			128	Insitu
1/10/2014	H400093	SP5 at s wall			192	Insitu
1/10/2014	H400093	SP5 at bottom			<16	Insitu
1/15/2014	H400135	SP3 at B			<16	Insitu
1/15/2014	H400135	SP3 at n wall			<16	Insitu
1/15/2014	H400135	SP3 at s wall			<16	Insitu
1/15/2014	H400135	SP4 at B			64	Insitu
1/15/2014	H400135	SP4 at n wall			<16	Insitu
1/15/2014	H400135	SP4 at s wall			<16	Insitu
1/15/2014	H400135	SP at pipe	<10	<0.300	<16	Insitu
1/15/2014	H400135	SP1 at s wall	<10	<0.300	32	Insitu
1/15/2014	H400135	SP1 at B	<10	<0.300	<16	Insitu
1/15/2014	H400135	SP1 at B2	<10	<0.300	<16	Insitu
1/20/2014	H400171	SP1 at road at 1 ft			272	Insitu
1/20/2014	H400171	SP1 at road at 2 ft			224	Insitu
1/22/2014	H400200	SP1 at n wall	<10	<0.300	<16	Insitu
1/22/2014	H400200	SP1 at s wall	<10	<0.300	<16	Insitu
1/22/2014	H400200	SP1 at B	<10	<0.300	<16	Insitu

Appendix VI

LABORATORY ANALYSES

Diversified Field Service, Inc.
3412 N. Dal Paso
Hobbs, NM 88240
(575) 964-8394

January 10, 2014

JODY WALTERS

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: PLU #409

Enclosed are the results of analyses for samples received by the laboratory on 01/06/14 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

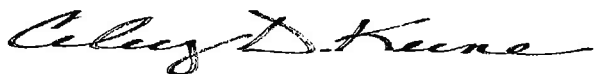
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Bass Enterprises
JODY WALTERS
522 W. Mermod #709
Carlsbad NM, 88220
Fax To: (505) 887-7473

Received: 01/06/2014
Reported: 01/10/2014
Project Name: PLU #409
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/06/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ WALL (H400036-01)
BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2014	ND	2.01	101	2.00	7.47	
Toluene*	<0.050	0.050	01/08/2014	ND	1.98	99.2	2.00	7.63	
Ethylbenzene*	<0.050	0.050	01/08/2014	ND	2.03	101	2.00	7.88	
Total Xylenes*	<0.150	0.150	01/08/2014	ND	5.92	98.6	6.00	8.07	
Total BTEX	<0.300	0.300	01/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 89.4-126

TPH 8015M

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/08/2014	ND	192	96.1	200	2.58	
DRO >C10-C28	<10.0	10.0	01/08/2014	ND	193	96.6	200	0.609	
EXT DRO >C28-C35	<10.0	10.0	01/08/2014	ND					

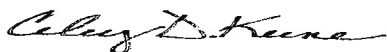
Surrogate: 1-Chlorooctane 96.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.1 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Bass Enterprises
JODY WALTERS
522 W. Mermod #709
Carlsbad NM, 88220
Fax To: (505) 887-7473

Received: 01/06/2014
Reported: 01/10/2014
Project Name: PLU #409
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/06/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ WALL (H400036-02)
BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2014	ND	1.92	96.2	2.00	3.51	
Toluene*	<0.050	0.050	01/08/2014	ND	1.90	95.2	2.00	3.40	
Ethylbenzene*	<0.050	0.050	01/08/2014	ND	1.94	97.1	2.00	3.44	
Total Xylenes*	<0.150	0.150	01/08/2014	ND	5.73	95.4	6.00	3.07	
Total BTEX	<0.300	0.300	01/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

TPH 8015M

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/08/2014	ND	192	96.1	200	2.58	
DRO >C10-C28	<10.0	10.0	01/08/2014	ND	193	96.6	200	0.609	
EXT DRO >C28-C35	<10.0	10.0	01/08/2014	ND					


Surrogate: 1-Chlorooctane 92.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.4 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Bass Enterprises
 JODY WALTERS
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

 Received: 01/06/2014
 Reported: 01/10/2014
 Project Name: PLU #409
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/06/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ MID (H400036-03)
BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2014	ND	1.92	96.2	2.00	3.51	
Toluene*	<0.050	0.050	01/08/2014	ND	1.90	95.2	2.00	3.40	
Ethylbenzene*	<0.050	0.050	01/08/2014	ND	1.94	97.1	2.00	3.44	
Total Xylenes*	<0.150	0.150	01/08/2014	ND	5.73	95.4	6.00	3.07	
Total BTEX	<0.300	0.300	01/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 89.4-126

TPH 8015M

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/08/2014	ND	192	96.1	200	2.58	
DRO >C10-C28	<10.0	10.0	01/08/2014	ND	193	96.6	200	0.609	
EXT DRO >C28-C35	<10.0	10.0	01/08/2014	ND					

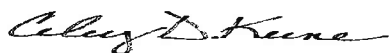
Surrogate: 1-Chlorooctane 92.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Bass Enterprises
JODY WALTERS
522 W. Mermod #709
Carlsbad NM, 88220
Fax To: (505) 887-7473

Received: 01/06/2014
Reported: 01/10/2014
Project Name: PLU #409
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/06/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ WALL (H400036-04)
BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2014	ND	1.92	96.2	2.00	3.51	
Toluene*	<0.050	0.050	01/08/2014	ND	1.90	95.2	2.00	3.40	
Ethylbenzene*	<0.050	0.050	01/08/2014	ND	1.94	97.1	2.00	3.44	
Total Xylenes*	<0.150	0.150	01/08/2014	ND	5.73	95.4	6.00	3.07	
Total BTEX	<0.300	0.300	01/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PII) 103 % 89.4-126

TPH 8015M

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/08/2014	ND	192	96.1	200	2.58	
DRO >C10-C28	<10.0	10.0	01/08/2014	ND	193	96.6	200	0.609	
EXT DRO >C28-C35	<10.0	10.0	01/08/2014	ND					

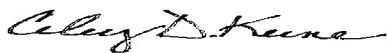
Surrogate: 1-Chlorooctane 94.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.4 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Bass Enterprises
JODY WALTERS
522 W. Mermod #709
Carlsbad NM, 88220
Fax To: (505) 887-7473

Received: 01/06/2014
Reported: 01/10/2014
Project Name: PLU #409
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/06/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ WALL (H400036-05)
BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2014	ND	1.92	96.2	2.00	3.51	
Toluene*	<0.050	0.050	01/08/2014	ND	1.90	95.2	2.00	3.40	
Ethylbenzene*	<0.050	0.050	01/08/2014	ND	1.94	97.1	2.00	3.44	
Total Xylenes*	<0.150	0.150	01/08/2014	ND	5.73	95.4	6.00	3.07	
Total BTEX	<0.300	0.300	01/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

TPH 8015M

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/08/2014	ND	192	96.1	200	2.58	
DRO >C10-C28	<10.0	10.0	01/08/2014	ND	193	96.6	200	0.609	
EXT DRO >C28-C35	<10.0	10.0	01/08/2014	ND					

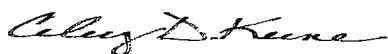
Surrogate: 1-Chlorooctane 96.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.7 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Bass Enterprises
JODY WALTERS
522 W. Mermod #709
Carlsbad NM, 88220
Fax To: (505) 887-7473

Received: 01/06/2014
Reported: 01/10/2014
Project Name: PLU #409
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/06/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 6 @ MID (H400036-06)
BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2014	ND	1.92	96.2	2.00	3.51	
Toluene*	<0.050	0.050	01/08/2014	ND	1.90	95.2	2.00	3.40	
Ethylbenzene*	<0.050	0.050	01/08/2014	ND	1.94	97.1	2.00	3.44	
Total Xylenes*	<0.150	0.150	01/08/2014	ND	5.73	95.4	6.00	3.07	
Total BTEX	<0.300	0.300	01/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 89.4-126

TPH 8015M

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/08/2014	ND	192	96.1	200	2.58	
DRO >C10-C28	<10.0	10.0	01/08/2014	ND	193	96.6	200	0.609	
EXT DRO >C28-C35	<10.0	10.0	01/08/2014	ND					

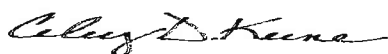
Surrogate: 1-Chlorooctane 90.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.9 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

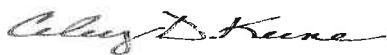
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

[illegible]

January 13, 2014

JODY WALTERS

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: PLU #409

Enclosed are the results of analyses for samples received by the laboratory on 01/07/14 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.


Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Bass Enterprises
 JODY WALTERS
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

 Received: 01/07/2014
 Reported: 01/13/2014
 Project Name: PLU #409
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/07/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 10 @ WALL N (H400044-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		<16.0	16.0	01/09/2014	ND	416	104	400	0.00	

Sample ID: SP 10 @ WALL E (H400044-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/09/2014	ND	416	104	400	0.00	

Sample ID: SP 10 @ WALL S (H400044-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/09/2014	ND	416	104	400	0.00	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Bass Enterprises
JODY WALTERS
522 W. Mermod #709
Carlsbad NM, 88220
Fax To: (505) 887-7473

Received: 01/07/2014
Reported: 01/13/2014
Project Name: PLU #409
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/07/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 10 @ WALL B (H400044-04)
BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2014	ND	1.92	96.1	2.00	2.06	
Toluene*	<0.050	0.050	01/10/2014	ND	1.89	94.6	2.00	2.20	
Ethylbenzene*	<0.050	0.050	01/10/2014	ND	1.93	96.4	2.00	2.32	
Total Xylenes*	<0.150	0.150	01/10/2014	ND	5.63	93.8	6.00	2.42	
Total BTEX	<0.300	0.300	01/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/09/2014	ND	416	104	400	0.00	

TPH 8015M

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/08/2014	ND	176	88.0	200	2.61	
DRO >C10-C28	<10.0	10.0	01/08/2014	ND	178	89.2	200	1.68	
EXT DRO >C28-C35	<10.0	10.0	01/08/2014	ND					

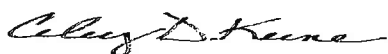
Surrogate: 1-Chlorooctane 85.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.3 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Caley D. Keene, Lab Director/Quality Manager

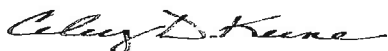
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: BOPCO P.O. #:
Project Manager: J. Walters Company: BOPCO
Address: Attn: Tony Savio
City: State: Zip: Address:
Phone #: Fax #: City: State: Zip:
Project #: Project Owner:
Project Name: PLU 400
Project Location:
Sample Name: Lance Cunningham Phone #:
Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	PRESERV. SAMPLING									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :												
44DD044	SP100 wall N		1							1-7-14	11:00										
	2 SP100 wall E		1							1-7-14	11:10										
	3 SP100 wall S		1							1-7-14	11:10										
	4 SP100 wall B		1							1-7-14	11:30										

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Relinquished By:

Date: 7/14

Received By:

Signature: [Signature]

Relinquished By:

Date: 7/14

Received By:

Signature: [Signature]

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

3.00 Cool ☒ Intact ☒
Yes ☒ No ☐

CHECKED BY: [Signature]

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

aruthedivers@card.com
JWalters@bussport.com
awclant@yatespetroleum.com

January 15, 2014

JODY WALTERS

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: PLU #409

Enclosed are the results of analyses for samples received by the laboratory on 01/08/14 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

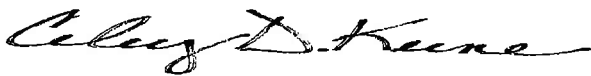
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Bass Enterprises
JODY WALTERS
522 W. Mermod #709
Carlsbad NM, 88220
Fax To: (505) 887-7473

Received: 01/08/2014
Reported: 01/15/2014
Project Name: PLU #409
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/08/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 8 @ BOTTOM (H400063-01)
BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2014	ND	1.97	98.7	2.00	5.22	
Toluene*	<0.050	0.050	01/14/2014	ND	1.91	95.6	2.00	6.25	
Ethylbenzene*	<0.050	0.050	01/14/2014	ND	1.95	97.7	2.00	5.02	
Total Xylenes*	<0.150	0.150	01/14/2014	ND	5.73	95.4	6.00	4.47	
Total BTEX	<0.300	0.300	01/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PII) 105 % 89.4-126

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/13/2014	ND	416	104	400	3.92	

Sample ID: SP 8 @ S WALL (H400063-02)
Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/13/2014	ND	416	104	400	3.92	

Sample ID: SP 8 @ N WALL (H400063-03)
Chloride, SM4500CI-B

mg/kg

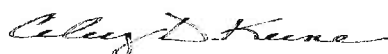
Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/13/2014	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Bass Enterprises
JODY WALTERS
522 W. Mermod #709
Carlsbad NM, 88220
Fax To: (505) 887-7473

Received: 01/08/2014
Reported: 01/15/2014
Project Name: PLU #409
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/08/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 9 @ BOTTOM (H400063-04)
BTEX 8021B
mg/kg
Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2014	ND	1.97	98.7	2.00	5.22	
Toluene*	<0.050	0.050	01/14/2014	ND	1.91	95.6	2.00	6.25	
Ethylbenzene*	<0.050	0.050	01/14/2014	ND	1.95	97.7	2.00	5.02	
Total Xylenes*	<0.150	0.150	01/14/2014	ND	5.73	95.4	6.00	4.47	
Total BTEX	<0.300	0.300	01/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 89.4-126

Chloride, SM4500CI-B
mg/kg
Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/13/2014	ND	416	104	400	3.92	

Sample ID: SP 9 @ S WALL (H400063-05)
Chloride, SM4500CI-B
mg/kg
Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/13/2014	ND	416	104	400	3.92	

Sample ID: SP 9 @ N WALL (H400063-06)
Chloride, SM4500CI-B
mg/kg
Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/13/2014	ND	416	104	400	3.92	

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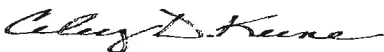
Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Bobco

Project Manager: Sody Walters

Address:

City:

State: Zip:

Phone #:

Fax #:

Project #:

Project Owner:

Project Name: PLU 409

Project Location:

Sampler Name: Lance Crenshaw

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

14400103

SP80 Boston

2 SP80 S wall

3 SP80 N wall

4 SP80 Bottom

5 SP80 S wall

6 SP80 N wall

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

MATRIX

PRESERV

SAMPLING

ANALYSIS REQUEST

P.O. #:

Company: Bobco

Attn: Tony

Address:

City:

State:

Zip:

Phone #:

Fax #:

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Relinquished By:

Relinquished By:

Date: 11/8/14

Time: 4:45

Date:

Time:

Received By:

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

CHECKED BY:

(initials)

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:

Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:

REMARKS:

analyzed in 100% solution
5 Walters@busss.net.com

January 23, 2014

JODY WALTERS

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: PLU #409

Enclosed are the results of analyses for samples received by the laboratory on 01/15/14 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Bass Enterprises
 JODY WALTERS
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

 Received: 01/15/2014
 Reported: 01/23/2014
 Project Name: PLU #409
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/15/2014
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Kathy Perez

Sample ID: SP3 @ B (H400135-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		<16.0	16.0	01/17/2014	ND	416	104	400	3.92	

Sample ID: SP3 @ NORTH WALL (H400135-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2014	ND	416	104	400	3.92	

Sample ID: SP3 @ SOUTH WALL (H400135-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/17/2014	ND	416	104	400	3.92		

Sample ID: SP4 @ B (H400135-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/17/2014	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Bass Enterprises
 JODY WALTERS
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

 Received: 01/15/2014
 Reported: 01/23/2014
 Project Name: PLU #409
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/15/2014
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Kathy Perez

Sample ID: SP4 @ NORTH WALL (H400135-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2014	ND	416	104	400	3.92	

Sample ID: SP4 @ SOUTH WALL (H400135-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		<16.0	16.0	01/17/2014	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Bass Enterprises
 JODY WALTERS
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

 Received: 01/15/2014
 Reported: 01/23/2014
 Project Name: PLU #409
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/15/2014
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Kathy Perez

Sample ID: SP @ PIPE (H400135-07)
BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2014	ND	2.28	114	2.00	0.650	
Toluene*	<0.050	0.050	01/21/2014	ND	2.23	112	2.00	0.677	
Ethylbenzene*	<0.050	0.050	01/21/2014	ND	2.26	113	2.00	0.431	
Total Xylenes*	<0.150	0.150	01/21/2014	ND	6.61	110	6.00	0.209	
Total BTEX	<0.300	0.300	01/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 89.4-126

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2014	ND	416	104	400	3.92	

TPH 8015M

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/22/2014	ND	46.7	93.4	50.0	3.48	
DRO >C10-C28	<10.0	10.0	01/22/2014	ND	47.4	94.9	50.0	1.97	
EXT DRO >C28-C35	<10.0	10.0	01/22/2014	ND					

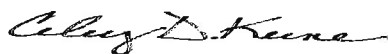
Surrogate: 1-Chlorooctane 87.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.7 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Bass Enterprises
JODY WALTERS
522 W. Mermod #709
Carlsbad NM, 88220
Fax To: (505) 887-7473

Received: 01/15/2014
Reported: 01/23/2014
Project Name: PLU #409
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/15/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Kathy Perez

Sample ID: SP1 @ SOUTH WALL (H400135-08)
BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2014	ND	2.28	114	2.00	0.650	
Toluene*	<0.050	0.050	01/21/2014	ND	2.23	112	2.00	0.677	
Ethylbenzene*	<0.050	0.050	01/21/2014	ND	2.26	113	2.00	0.431	
Total Xylenes*	<0.150	0.150	01/21/2014	ND	6.61	110	6.00	0.209	
Total BTEX	<0.300	0.300	01/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 89.4-126

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/17/2014	ND	416	104	400	3.92	

TPH 8015M

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/18/2014	ND	46.7	93.4	50.0	3.48	
DRO >C10-C28	<10.0	10.0	01/18/2014	ND	47.4	94.9	50.0	1.97	
EXT DRO >C28-C35	<10.0	10.0	01/18/2014	ND					

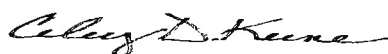
Surrogate: 1-Chlorooctane 75.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 80.1 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Bass Enterprises
JODY WALTERS
522 W. Mermod #709
Carlsbad NM, 88220
Fax To: (505) 887-7473

Received: 01/15/2014
Reported: 01/23/2014
Project Name: PLU #409
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/15/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Kathy Perez

Sample ID: SP1 @ B (H400135-09)
BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2014	ND	2.28	114	2.00	0.650	
Toluene*	<0.050	0.050	01/21/2014	ND	2.23	112	2.00	0.677	
Ethylbenzene*	<0.050	0.050	01/21/2014	ND	2.26	113	2.00	0.431	
Total Xylenes*	<0.150	0.150	01/21/2014	ND	6.61	110	6.00	0.209	
Total BTEX	<0.300	0.300	01/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 89.4-126

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/20/2014	ND	416	104	400	0.00	

TPH 8015M

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/18/2014	ND	46.7	93.4	50.0	3.48	
DRO >C10-C28	<10.0	10.0	01/18/2014	ND	47.4	94.9	50.0	1.97	
EXT DRO >C28-C35	<10.0	10.0	01/18/2014	ND					

Surrogate: 1-Chlorooctane 77.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Bass Enterprises
 JODY WALTERS
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

 Received: 01/15/2014
 Reported: 01/23/2014
 Project Name: PLU #409
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/15/2014
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Kathy Perez

Sample ID: SP1 @ B2 (H400135-10)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2014	ND	2.28	114	2.00	0.650	
Toluene*	<0.050	0.050	01/21/2014	ND	2.23	112	2.00	0.677	
Ethylbenzene*	<0.050	0.050	01/21/2014	ND	2.26	113	2.00	0.431	
Total Xylenes*	<0.150	0.150	01/21/2014	ND	6.61	110	6.00	0.209	
Total BTEX	<0.300	0.300	01/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/20/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/18/2014	ND	46.7	93.4	50.0	3.48	
DRO >C10-C28	<10.0	10.0	01/18/2014	ND	47.4	94.9	50.0	1.97	
EXT DRO >C28-C35	<10.0	10.0	01/18/2014	ND					

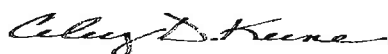
Surrogate: 1-Chlorooctane 72.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 77.5 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

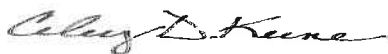
Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 9 of 9

January 17, 2014

JODY WALTERS

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: PLU #409

Enclosed are the results of analyses for samples received by the laboratory on 01/09/14 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.


Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Bass Enterprises
 JODY WALTERS
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

 Received: 01/09/2014
 Reported: 01/17/2014
 Project Name: PLU #409
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 7 @ S WALL (H400083-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		<16.0	16.0	01/13/2014	ND	416	104	400	0.00	

Sample ID: SP 7 @ N WALL (H400083-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/13/2014	ND	416	104	400	0.00	

Sample ID: SP 7 @ BOTTOM (H400083-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/13/2014	ND	416	104	400	0.00	

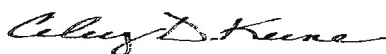
Sample ID: SP 6 @ S WALL (H400083-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		<16.0	16.0	01/13/2014	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Bass Enterprises
 JODY WALTERS
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

 Received: 01/09/2014
 Reported: 01/17/2014
 Project Name: PLU #409
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 6 @ N WALL (H400083-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/13/2014	ND	416	104	400	0.00		

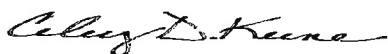
Sample ID: SP 6 @ BOTTOM (H400083-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/13/2014	ND	400	100	400	3.92	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

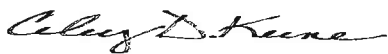
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

Page 5 of 5

January 21, 2014

JODY WALTERS

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: PLU #409

Enclosed are the results of analyses for samples received by the laboratory on 01/10/14 15:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Bass Enterprises
 JODY WALTERS
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

 Received: 01/10/2014
 Reported: 01/21/2014
 Project Name: PLU #409
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/10/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ N WALL (H400093-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/15/2014	ND	400	100	400	3.92	

Sample ID: SP 4 @ S WALL (H400093-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/15/2014	ND	400	100	400	3.92		

Sample ID: SP 4 @ W WALL (H400093-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/17/2014	ND	432	108	400	7.14		

Sample ID: SP 4 @ BOTTOM (H400093-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/17/2014	ND	432	108	400	7.14		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Bass Enterprises
 JODY WALTERS
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

 Received: 01/10/2014
 Reported: 01/21/2014
 Project Name: PLU #409
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/10/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 5 @ N WALL (H400093-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/17/2014	ND	432	108	400	7.14	

Sample ID: SP 5 @ S WALL (H400093-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/17/2014	ND	432	108	400	7.14	

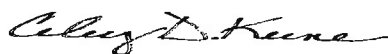
Sample ID: SP 5 @ BOTTOM (H400093-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2014	ND	432	108	400	7.14	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Agpeco</u>		P.O. #:		BILL TO		ANALYSIS REQUEST			
Project Manager: <u>Sody Walters</u>		Company: <u>Borco</u>							
Address:		City:							
State:		Zip:							
Phone #:		Fax #:							
Project #:		Project Owner:							
Project Name: <u>PLU 469</u>		City:							
Project Location:		State:							
Sampler Name: <u>Lane Cunningham</u>		Phone #:							
FOR LAB USE ONLY		Fax #:							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		PRESERV.	SAMPLING		
				GROUNDWATER					
				WASTEWATER					
				SOIL					
				OIL					
				SLUDGE					
				OTHER:					
				ACID/BASE:					
				ICE / COOL					
				OTHER:					
				DATE	TIME				
1400093	SP4P N wall	G 1	1	1-10-14	2:00				
2	SP4P S wall	G 1	1	1-10-14	2:00				
3	SP4P U wall	G 1	1	1-10-14	2:00				
4	SP4P E wall	G 1	1	1-10-14	2:00				
5	SP5 P N wall	G 1	1	1-10-14	2:00				
6	SP5 P S wall	G 1	1	1-10-14	2:00				
7	SP5 P E wall	G 1	1	1-10-14	2:00				
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Relinquished By: <u>[Signature]</u>		Date: <u>11/10/14</u>		Time: <u>3:07</u>		Received By: <u>[Signature]</u>			
Delivered By: (Circle One)		Sample Condition		Cool		Intact			
Sampler - UPS - Bus - Other:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
O.80		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Add'l Phone #: <u>[Blank]</u>		Add'l Fax #: <u>[Blank]</u>			
Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326		REMARKS: <u>Toddy, Amy</u>							

January 28, 2014

JODY WALTERS

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: PLU #409

Enclosed are the results of analyses for samples received by the laboratory on 01/22/14 11:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Bass Enterprises
JODY WALTERS
522 W. Mermod #709
Carlsbad NM, 88220
Fax To: (505) 887-7473

Received: 01/22/2014
Reported: 01/28/2014
Project Name: PLU #409
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/22/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ N WALL (H400200-01)
BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2014	ND	1.99	99.5	2.00	4.14	
Toluene*	<0.050	0.050	01/24/2014	ND	1.95	97.7	2.00	4.54	
Ethylbenzene*	<0.050	0.050	01/24/2014	ND	1.94	96.8	2.00	4.05	
Total Xylenes*	<0.150	0.150	01/24/2014	ND	5.66	94.3	6.00	4.10	
Total BTEX	<0.300	0.300	01/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 89.4-126

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/24/2014	ND	416	104	400	0.00	

TPH 8015M

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/24/2014	ND	207	104	200	3.73	
DRO >C10-C28	<10.0	10.0	01/24/2014	ND	204	102	200	2.46	
EXT DRO >C28-C35	<10.0	10.0	01/24/2014	ND					

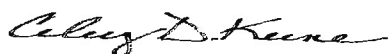
Surrogate: 1-Chlorooctane 78.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.6 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Bass Enterprises
JODY WALTERS
522 W. Mermod #709
Carlsbad NM, 88220
Fax To: (505) 887-7473

Received: 01/22/2014
Reported: 01/28/2014
Project Name: PLU #409
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/22/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ S WALL (H400200-02)
BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2014	ND	2.38	119	2.00	2.71	
Toluene*	<0.050	0.050	01/27/2014	ND	2.34	117	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/27/2014	ND	2.34	117	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/27/2014	ND	6.73	112	6.00	2.76	
Total BTEX	<0.300	0.300	01/27/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 89.4-126

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/24/2014	ND	416	104	400	0.00	

TPH 8015M

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/24/2014	ND	207	104	200	3.73	
DRO >C10-C28	<10.0	10.0	01/24/2014	ND	204	102	200	2.46	
EXT DRO >C28-C35	<10.0	10.0	01/24/2014	ND					

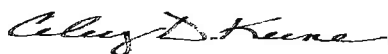
Surrogate: 1-Chlorooctane 81.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.9 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Bass Enterprises
JODY WALTERS
522 W. Mermod #709
Carlsbad NM, 88220
Fax To: (505) 887-7473

Received: 01/22/2014
Reported: 01/28/2014
Project Name: PLU #409
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/22/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ B (H400200-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2014	ND	2.38	119	2.00	2.71	
Toluene*	<0.050	0.050	01/27/2014	ND	2.34	117	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/27/2014	ND	2.34	117	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/27/2014	ND	6.73	112	6.00	2.76	
Total BTEX	<0.300	0.300	01/27/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/24/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/24/2014	ND	207	104	200	3.73	
DRO >C10-C28	<10.0	10.0	01/24/2014	ND	204	102	200	2.46	
EXT DRO >C28-C35	<10.0	10.0	01/24/2014	ND					

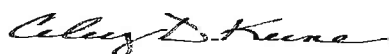
Surrogate: 1-Chlorooctane 83.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.7 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories***=Accredited Analyte**

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Celest D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Booco
Project Manager: Sody Walters

P.O. #:

ANALYSIS REQUEST

Address: _____
City: _____ State: _____ Zip: _____
Phone #: _____ Fax #: _____
Project #: _____ Project Owner: _____
Project Name: PLU 409
Project Location: _____
Sampler Name: _____
FOR LAB USE ONLY

Company: Booco
Attn: Tony
Address: _____
City: _____ State: _____ Zip: _____
Phone #: _____ Fax #: _____

Lab I.D. _____

Sample I.D. _____

H4DD200

1 SP/0 N wq 11
2 SP/0 S wa 11
3 SP/0 B

(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME
G	1										1-22-14	11:00
G	1										1-22-14	10:00
G	1										1-22-14	10:00

MATRIX

PRESERV

SAMPLING

BTCL
8015m
CL

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Relinquished By: James Leach
Date: 1-22-14 Received By: Arthel Davis
Time: 11:35
Date: _____ Received By: _____
Time: _____

Phone Result: ☐ Yes ☐ No Add'l Phone #: _____
Fax Result: ☐ Yes ☐ No Add'l Fax #: _____
REMARKS: _____

Arthel Davis
arthe@diversifiedsi.com
55walters@basspet.com

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: 2.100
Sample Condition: 2.100
Cool Intact Yes No
Pres Yes No
No Yes No
CHECKED BY: Arthel Davis

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2476

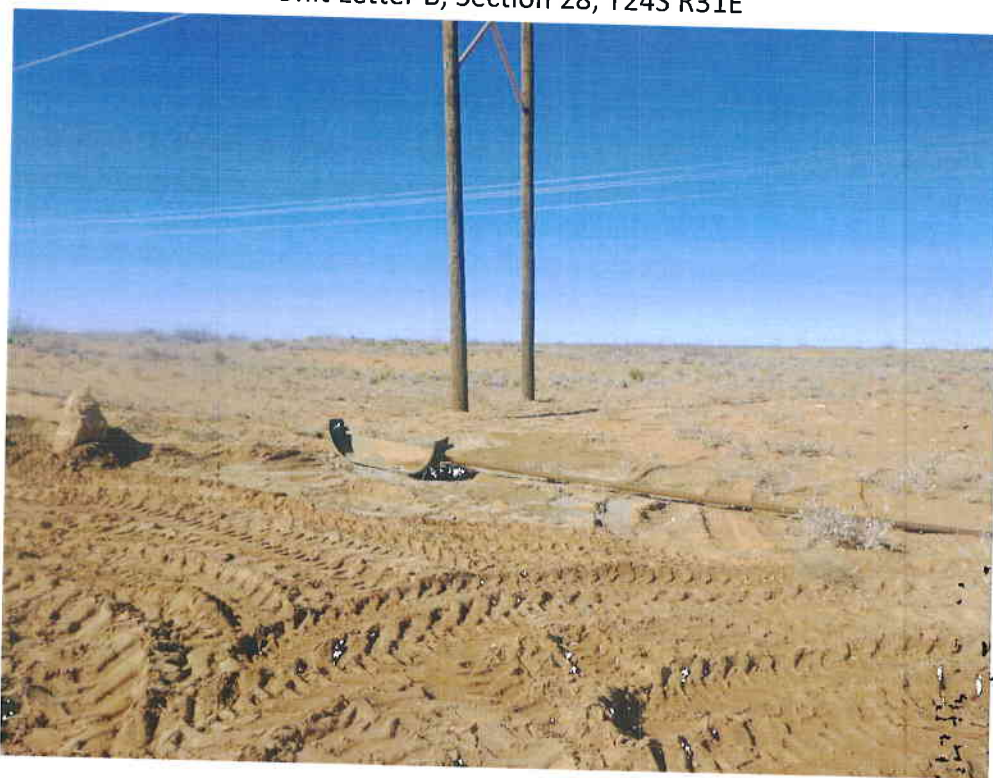
Appendix VII

PHOTO PAGES

Diversified Field Service, Inc.
3412 N. Dal Paso
Hobbs, NM 88240
(575) 964-8394

BOPCO Poker Lake Unit #409H

Unit Letter B, Section 28, T24S R31E



Site of leak 12/30/13



Sample points in pasture area east of lease road 12/30/13



Excavation of impacted area north leg of the flowline

1/14/14



Backfilling lease road 1/28/14



Excavation of impacted lease road 12/30/13



Excavation of impacted pasture area 1/8/14



Completion of lease road 1/28/14



Completion of impacted pasture area 1/28/14