Attn: **Mike Bratcher**Environmental Specialist
New Mexico Oil Conservation Division, District II
811 S. First St.
Artesia, NM 88210

RE: Form C-103 Subsequent Report of Remedial Work
Form C-141 Release Notification and Corrective Action
Bass #003 SWD
Unit Letter F, Section 12, T195, R28E

Mr. Bratcher:

This is a summary of activities during the final reclamation of the Bass 003 SWD, and a request for approval of the associated NMOCD Forms C-103 and C-141. The former well location is located east of Fade-Away Ridge in Eddy County, north of Curry Comb Road, east of Carlsbad, NM. The former well is identified by a steel, plugged well marker on the north side of the pad. The site was constructed on a grade with the north end of the site in a higher elevation than the south end of the former well pad. An earthen tank battery containment also remained at the east edge of the location near a power pole.

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Fax: (575)887-7473

BOPCO, L.P. (BOPCO) retained Merrymen Construction (Merrymen) to reclaim the site. BOPCO also later retained Basin Environmental Technologies (Basin) to further assess impact areas discovered at the site resulting from various unknown historical spills from former production and salt water disposal operations.

### **Summary of Activities**

In June 2014, Merrymen began the reclamation of the former well pad. During initial soil sampling and field screening, chloride impacted soils and some hydrocarbon impacted soils were discovered most prominently in the central and south portions of the well pad (Figure 1 - Attached). However, much of the former pad area to the north of the well marker contained encroaching vegetation and no physical indications of chloride impact.

### **Initial Sampling**

Initial trench delineation of soil impacts took place from June through July 2014 (Figure 1 - Attached). Soil samples were screened for chloride content in the field and some were submitted to a commercial laboratory for chloride analysis. In areas showing physical evidence of hydrocarbon impact, samples were also submitted for TPH (Total Petroleum Hydrocarbons) analysis (Laboratory Reports - Attached). All site activities and sample results were discussed with the New Mexico Oil Conservation Division (NMOCD) on various occasions through the duration of the project. Photographs of site activities are attached.

Samples were collected north of the well marker in positions that did not contain vegetation, though also showed no physical indication of chloride or hydrocarbon impact. These areas also displayed very compacted caliche soils and rock. A sample from 6 inches below ground surface (bgs) was returned from the laboratory showing less than 600 mg/kg. The entire disturbed area north of the well marker (approximately 14,000 square feet), including a few intermittent areas of sparse re-vegetation, was scraped to 6 inches below ground surface (bgs) and was backfilled with clean imported topsoil in order to provide a more conducive topsoil environment for future vegetation. A field screen of a composite sample of the excavated soils showed approximately 900 mg/kg chloride. All excavated soils were removed to a NMOCD approved disposal facility. This area north of the well marker was then utilized as a clean soil staging area for the remainder of the site remediation and final reclamation activities.

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Soils in the central area of the former pad showed physical indications of chloride and one area of TPH. Soil samples indicated deeper and more concentrated chloride impacts, though the majority of soils did not display physical indication of hydrocarbons. Samples were field screened for chloride and submitted to a laboratory for chloride analysis. With the exception of sample point 3 and within the tank battery berm, vertical delineation of chloride was achieved in this area with the use of an excavator. Furthermore, the sample point within the tank battery berm near the former location of the tank (TB) displayed some physical evidence of shallow hydrocarbon impact. Soil samples from within the tank battery were field screened for chloride and submitted to a laboratory for chloride and TPH analyses. Chloride at both sample point 3 and within the tank battery remained above 1,000 mg/kg, and TPH within the tank battery remained less than detectable throughout the soil profile. Simultaneous removal of surface impacted soils was initiated in the area extending from the well marker toward the south and east borders.

Several sample points located at the south end of the former well pad and south of the pad in the pasture showed concentrated chloride impacts that extended deeper than 20 feet bgs. In addition, some physical evidence of hydrocarbon impact was also visible in the pasture south of the location, in the vicinity of sample points 16 and 14.

## Vertical Delineation - Soil Bore Installation

During July 28-31, 2014, an air rotary rig was used to complete vertical delineation of sample point 3, the sample point within the tank battery berm, and the entire south end of the well pad. A total of 6 soil bores were advanced at the site (Figure 2 - Attached). Discreet core samples were collected at 5 feet bgs and continued in 5 foot vertical intervals. Soil samples were simultaneously screened for chloride to determine the soil bore terminus.

SB1 was placed at the position of sample point 3. At 30 feet bgs, the soil bore collapsed and no further samples could be obtained. Chloride at final depth was 1,620 mg/kg with less than detectable amounts of TPH and BTEX (Benzene, Toluene, Ethylbenzene, Xylene). Compared with all remaining soil bores, with the exception of the background soil bore (SB3), SB1 showed the lowest chloride concentrations.

SB2 was drilled at the sample point within the tank battery berm. Sample intervals in this soil bore and all following soil bores within the affected area expanded from 5 feet to 10 - 20 feet due to the instability of soils and collapsibility of the soil bores. Chloride fluctuated throughout the SB2 profile and dropped to less than detectable levels at 95 feet bgs. TPH and BTEX remained less than detectable throughout.

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SB3 was drilled as a background soil bore and placed approximately 240 feet north of the well marker, in the pasture. Background samples in this area were more easily obtained in 5 foot intervals. Background chloride levels ranged from 160 mg/kg at 10 feet bgs to 48 mg/kg at 30 feet bgs.

SB4 was placed near the position of sample points 10 and 14 at the southernmost edge of the defined well pad. Sample intervals were again expanded to 10 - 20 feet. At 95 feet bgs, the chloride level dropped to 672 feet bgs and again, the soil bore could not be advanced further due to risk of damage to the drill rig. TPH and BTEX remained less than detectable throughout.

SB5 was drilled near sample point 16, located off the southwest edge of the well pad. SB5 contained the highest concentrations of chloride within the impacted area. Chloride at 125 feet bgs dropped to 32 mg/kg. TPH was indicated as diesel range organics and totaled less than 30 mg/kg at 5 feet bgs. In all remaining samples, TPH and BTEX remained less than detectable.

SB6 was placed south and east of SB5 (down slope) off the south end of the well pad. Chloride at 105 feet bgs dropped to 80 mg/kg. TPH and BTEX remained less than detectable throughout.

### Lateral Delineation

Following soil bore sampling activities, the site was delineated horizontally to determine the lateral extent of impacts and to outline the boundaries of the excavation in progress. On August 27, 2014, samples were collected at the site boundaries in 5 foot outward lateral increments at a depth of 6" bgs (Figure 3 - Attached). Laboratory chloride results for final outer edge samples ranged from 16 mg/kg at HSP-9D to 384 mg/kg at HSP-10A.

### **Approvals**

On September 16, 2014, BOPCO submitted a summary of work activities and proposed a path forward to address the delineated site impacts. On October 7, 2014, the NMOCD allowed BOPCO to proceed with the proposed activities. In accordance with the approved plan and due to the difficulty of excavating the compacted caliche soils on the well pad, the central and east well pad, the entire south well pad, and the entire affected south pasture were excavated to 2 feet below ground surface (approximately 32,000 square feet). All excavated soils were removed to a NMOCD approved disposal facility. The excavated well pad areas were padded with a 4 to 6 inch layer of clean imported topsoil in the floor in preparation for installing a plastic liner. The entire excavation floor was lined with 20 mil reinforced plastic and backfilled with clean imported topsoil to ground surface. The site was contoured for water erosion prevention along the slope. The entire disturbed area will be reseeded in 2015 with a seed mix

recommended by the Bureau of Land Management for the native soils and to compliment surrounding vegetation.

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## Conclusion

Per NMOCD instructions, BOPCO submitted an initial form C-141 documenting the historical impacts at the site (NMOCD Initial Form C-141 - Attached). Depth to groundwater in the area has been indicated at approximately 165 feet by a ground water contour/extrapolation map maintained by the NMOCD. No other depth to water data was available from the US Geological Survey and the New Mexico Office of the State Engineer. No water wells or surface water bodies exist within 1,000 feet of the site. Based on NMOCD guidelines, the site has an initial ranking score of zero (0) points. Based on these criteria, soil remediation levels are as follows:

- Benzene 10 mg/kg
- Benzene, Toluene, Ethylbenzene, Xylene 50 mg/kg
- Total Petroleum Hydrocarbons 5,000 mg/kg

Chloride closure levels are determined on a site specific basis by the NMOCD as the New Mexico Administrative Code specifies no remediation level for chloride in soil. The entire site will be reseeded with a Bureau of Land Management seed mix that is used for similar areas of native vegetation.

Based on the depth to ground water, the vertical and lateral delineation of impacts at the site, and surface remediation efforts, BOPCO L.P. respectfully requests your review of the site and approval of the enclosed NMOCD Form C-103 and the enclosed associated final NMOCD Form C-141. Site diagrams, photographs of site activities, and laboratory reports are also enclosed for your review. Please call Tony Savoie at 432-556-8730 or myself at the number below if you have any questions or concerns.

Thank you

Amy C. Ruth

EH&S Remediation Specialist

Bopco, L.P.

Mobile: (432)661-0571 Office: (575)887-7329

Attachments:

NMOCD Form C-103

Initial and Final NMOCD Forms C-141

FIGURE 1 – Site Diagram Initial Trench Sampling (June through July 2014)

FIGURE 2 – Site Diagram Soil Bore Installation (July 28-31, 2014) FIGURE 3 – Site Diagram Lateral Delineation (August 27, 2014)

Photo Documentation Laboratory Reports

Submit 1 Copy To Appropriate District Office	State of New Mexico	Form C-103
<u>District I</u> – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> – (575) 748-1283	Energy, Minerals and Natural Resources OIL CONSERVATION DIVISION	Revised July 18, 2013  WELL API NO. 30-015-10442
811 S. First St., Artesia, NM 88210 <u>District III</u> – (505) 334-6178	1220 South St. Francis Dr.	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> – (505) 476-3460	Santa Fe, NM 87505	STATE FEE  6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505		
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1. Type of Well: Oil Well	Gas Well Other SWD	8. Well Number
2. Name of Operator BOPCO, L.P.		9. OGRID Number
3. Address of Operator 522 W. Mermod, Suite 704,	Carlsbad, NM 88220	10. Pool name or Wildcat
4. Well Location		
Unit LetterF_:231		
Section 12		MPM County Eddy
	11. Elevation (Show whether DR, RKB, RT, GR, e.	ic.)
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Spud Date:	Rig Release Date:	
I hereby certify that the information	above is true and complete to the best of my knowle	dge and belief.
SIGNATURE	TITLE_Asst. Remediation F	oreman DATE <u>6-23-15</u>
Type or print name Amy C. Ruth For State Use Only	E-mail address:ACRuth@basspet.co	m PHONE: _432-661-0571
APPROVED BY:  Conditions of Approval (if any):	TITLE	DATE
Conditions of ripproval (if ally).		

# **NM OIL CONSERVATION** ARTESIA DISTRICT

State of New Mexico Energy Minerals and Natural Resources

JAN 26 2015

Form C-141

Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC. RECEIVED

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 Santa Fe. NM 87505

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District I
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1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 8750

# State of New Mexico Energy Minerals and Natural Resources

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141 Revised August 8, 2011

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

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I hereby certi	ify that the i	information g	iven above	e is true and comp	olete to	the best of my	knowledge and u	ınderstand	that purs	uant to NM	OCD rule	s and
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E-mail Addre	ess: acruth	@basspet.com	m		_	Conditions o	i Approval:			Attached		

Phone: 432-661-0571

Date: 6-23-15

<sup>\*</sup> Attach Additional Sheets If Necessary

FIGURE 1: Bass 03 SWD Final Reclamation
Unit Letter F, Section 12, Township 19S, Range 28E

Initial Trench Sampling (June through July 2014)

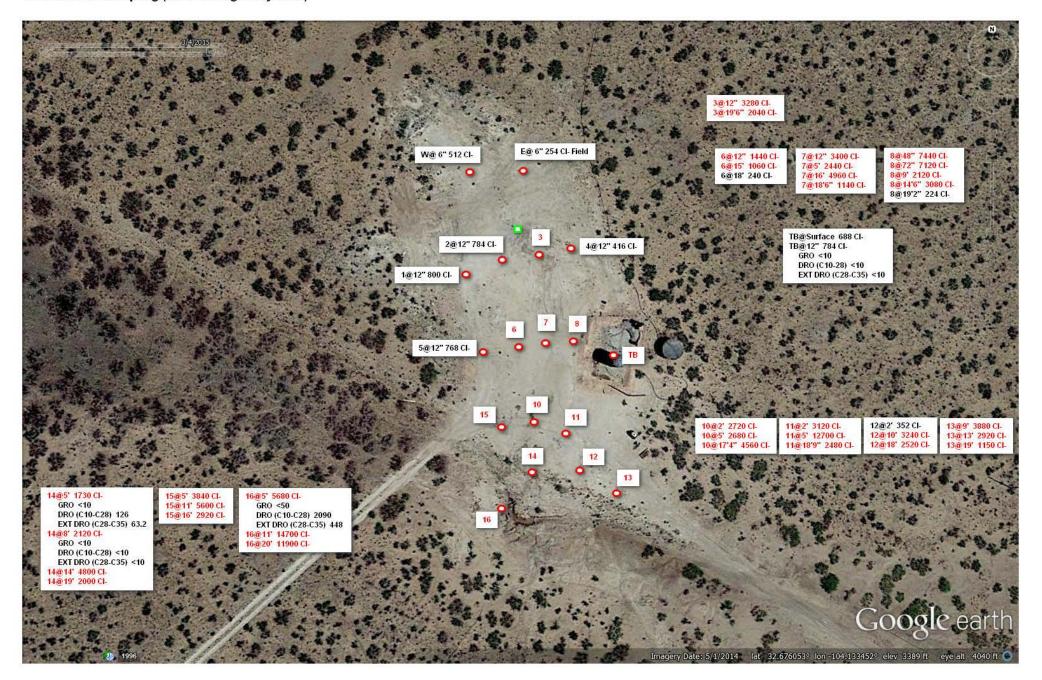


FIGURE 2: Bass 03 SWD Final Reclamation
Unit Letter F, Section 12, Township 19S, Range 28E

Soil Bore Installation (July 28-31, 2014)

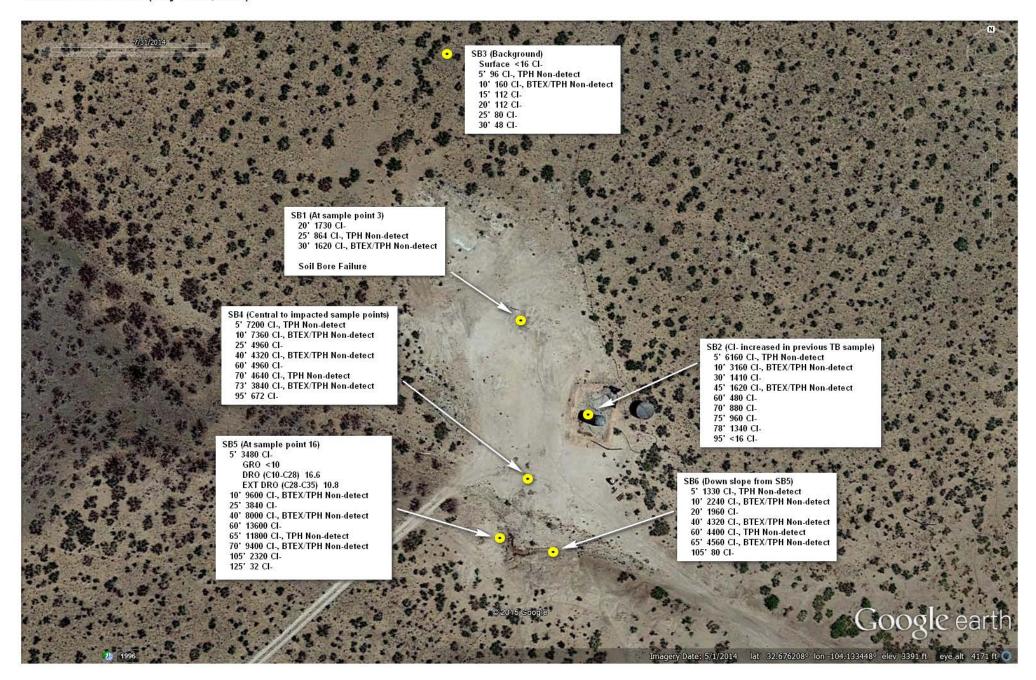
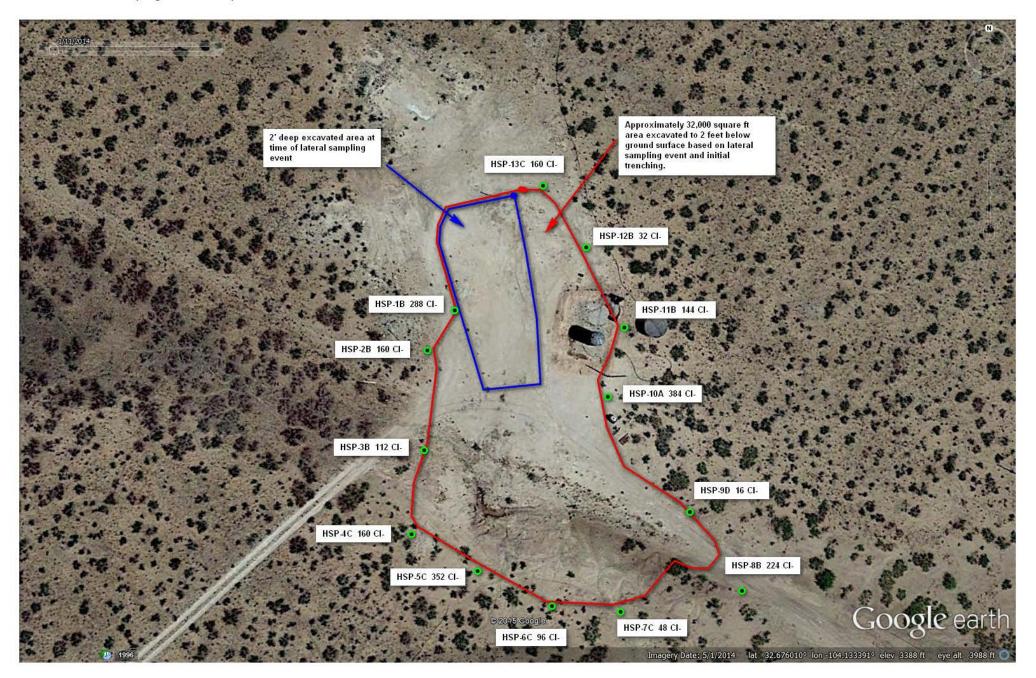


FIGURE 3: Bass 03 SWD Final Reclamation Unit Letter F, Section 12, Township 19S, Range 28E

Lateral Delineation (August 27, 2014)



# **Photo Documentation**

Bass 03 SWD Final Reclamation Unit Letter F, Section 12, T19S, R28E



Initial sampling trenches, from west side of P&A marker facing SE 
June 23, 2014



Excavating high chloride impact areas in central pad area, from SW pad facing NNE July 10, 2014



Drilling SB2, from SE pad facing N July 30, 2014





Drilling SB5, from SE pad facing WSW July 31, 2014



Backfilling 2 ft excavation above liner, from SW pad facing NNE November 17, 2014



Backfilling 2 ft excavation above liner, from SW pad facing NE November 17, 2014



Backfilling 2 ft excavation above liner, from W pad facing SSE November 17, 2014



Reclaimed former pad area, from SE facing N

February 19, 2015



Reclaimed former pad area, from SE facing NNW

February 19, 2014



June 26, 2014

TONY SAVOIE

**Bass Enterprises** 

522 W. Mermod #709

Carlsbad, NM 88220

RE: BASS PALMILLO SWD #3

Enclosed are the results of analyses for samples received by the laboratory on 06/25/14 7:51.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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



Bass Enterprises TONY SAVOIE 522 W. Mermod #709 Carlsbad NM, 88220

Fax To: (505) 887-7473

Received: 06/25/2014 Sampling Date: 06/24/2014

Reported: 06/26/2014 Sampling Type: Soil

Project Name: BASS PALMILLO SWD #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EDDY COUNTY, NM

Sample ID: #1 @ 12" (H401909-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	06/26/2014	ND	416	104	400	3.92	

### Sample ID: #2 @ 12" (H401909-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	06/26/2014	ND	416	104	400	3.92	

### Sample ID: #3 @ 12" (H401909-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	06/26/2014	ND	416	104	400	3.92	

## Sample ID: #4 @ 12" (H401909-04)

Chloride, SM4500CI-B	B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/26/2014	ND	400	100	400	0.00	

Cardinal Laboratories \*=Accredited Analyte

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Bass Enterprises TONY SAVOIE 522 W. Mermod #709 Carlsbad NM, 88220

Fax To: (505) 887-7473

Received: 06/25/2014 Sampling Date: 06/24/2014

Reported: 06/26/2014 Sampling Type: Soil

Project Name: BASS PALMILLO SWD #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EDDY COUNTY, NM

### Sample ID: #5 @ 12" (H401909-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	06/26/2014	ND	400	100	400	0.00	
Sample ID: #6 @ 12" (H40	01909-06)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	06/26/2014	ND	400	100	400	0.00	
Sample ID: #7 @ 12" (H40	01909-07)								
Chloride, SM4500Cl-B				Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	06/26/2014	ND	400	100	400	0.00	
Sample ID: #8 @ 48" (H40	)1909-08)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7440	16.0	06/26/2014	ND	400	100	400	0.00	
Sample ID: #8 @ 72" (H40	)1909-09)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7120	16.0	06/26/2014	ND	400	100	400	0.00	

# Cardinal Laboratories \*=Accredited Analyte

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Bass Enterprises TONY SAVOIE 522 W. Mermod #709 Carlsbad NM, 88220

Fax To: (505) 887-7473

Received: 06/25/2014 Sampling Date: 06/24/2014

Reported: 06/26/2014 Sampling Type: Soil

Project Name: BASS PALMILLO SWD #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EDDY COUNTY, NM

### **Sample ID: TB @ SURFACE (H401909-10)**

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	06/26/2014	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/25/2014	ND	171	85.6	200	2.04	
DRO >C10-C28	<10.0	10.0	06/25/2014	ND	188	93.8	200	0.206	
EXT DRO >C28-C35	<10.0	10.0	06/25/2014	ND					
Surrogate: 1-Chlorooctane	104	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	111	% 63.6-15	4						

# Sample ID: TB @ 12" (H401909-11)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	06/26/2014	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/25/2014	ND	171	85.6	200	2.04	
DRO >C10-C28	<10.0	10.0	06/25/2014	ND	188	93.8	200	0.206	
EXT DRO >C28-C35	<10.0	10.0	06/25/2014	ND					
Surrogate: 1-Chlorooctane	104	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	110	% 63.6-15	4						

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### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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\*\*\* 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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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ompany Name: /Smarco L.P.		BILL TO	ANALYSIS REQUEST
TONV SAG	P.O. #:		
1	Company:	y: Bopco.	
State:	Zip: Attn: 7	TOMY SAVOUS	
Phone #: Fax #:	Address	7.	
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on: W/se	M. Eddy Co Phone #:	er	
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Relinquished By: Date:	Received By	¥	
Delivered By: (Circle One)	Sample Condition (	CHECKED BY:	
Sampler - UPS - Bus - Other:	The Tres	The	



July 01, 2014

TONY SAVOIE

**Bass Enterprises** 

522 W. Mermod #709

Carlsbad, NM 88220

RE: BASS PALMILLO SWD #3

Enclosed are the results of analyses for samples received by the laboratory on 07/01/14 8:11.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



Bass Enterprises TONY SAVOIE 522 W. Mermod #709 Carlsbad NM, 88220

Fax To: (505) 887-7473

Received: 07/01/2014 Sampling Date: 06/30/2014

Reported: 07/01/2014 Sampling Type: Soil

Project Name: BASS PALMILLO SWD #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: #8 @ 9' (H401975-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	07/01/2014	ND	416	104	400	0.00	

### Sample ID: #8 @ 14'6" (H401975-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	07/01/2014	ND	416	104	400	0.00	

### Sample ID: #8 @ 19'2" (H401975-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/01/2014	ND	416	104	400	0.00	

### Sample ID: #7 @ 5' (H401975-04)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	07/01/2014	ND	416	104	400	0.00	

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Bass Enterprises TONY SAVOIE 522 W. Mermod #709 Carlsbad NM, 88220

Fax To: (505) 887-7473

Received: 07/01/2014 Sampling Date: 06/30/2014

Reported: 07/01/2014 Sampling Type: Soil

Project Name: BASS PALMILLO SWD #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: #7 @ 16' (H401975-05)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 4960 07/01/2014 ND 416 104 400 0.00 16.0

Sample ID: #7 @ 18'6" (H401975-06)

Chloride, SM4500Cl-B Analyzed By: AP Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result % Recovery Chloride 1140 16.0 07/01/2014 416 104 400 0.00 ND

Cardinal Laboratories \*=Accredited Analyte

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### **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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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(n)	P.O. #:	
	Company: Bopco, L.P.	
State: Zip:	Attn: TONY SAJOIE	
Fax #:	Address:	
Project Owner:	City:	
CMS E# OTTIMAN		
bad, M.M.	Phone #:	
ion,	Fax #:	
MATRIX	PRESERV. SAMPLING	
(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL	ACID/BASE: CE / COOL 9THER :	2
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	WASTEWATER  It Owner:  No or or or (G)RAB OR (C)OMP.  Pip:  No or or or (G)RAB OR (C)OMP.  No or	State: Zip: Company: Bopco LP.  Project Owner: Attn: Tany Shile  Project Owner: City: Address: City:  PALMILLO #3 SW)  State: Zip: Address: City: City: Shile  Phone #:  Fax #: PRESERV. SAMPLING  OTHER: ACID/BASE: ICE / COOL  OTHER: ACID/BASE: ICE / COOL  OTHER: DATE TIME  OTHER: DATE TIME  OTHER: DATE TIME  OTHER: OTHER: DATE TIME  OTHER: OTHE

Relinguished By: Relinquished By: Delivered By: (Circle One) on sheen Time: 8:1/ Date: Time: Received By: Regeived By: Phone Result: Fax Result: REMARKS: □ Yes

No No

Add'l Phone #: Add'l Fax #:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 Sample Condition
Cool Intact
Ves Ves
No No

Sampler - UPS - Bus - Other:

Page 5 of 5



July 03, 2014

TONY SAVOIE

**Bass Enterprises** 

522 W. Mermod #709

Carlsbad, NM 88220

RE: BASS PALMILLO SWD #3

Enclosed are the results of analyses for samples received by the laboratory on 07/03/14 7:54.

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Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

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Celey D. Keene

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



Bass Enterprises TONY SAVOIE 522 W. Mermod #709 Carlsbad NM, 88220

Fax To: (505) 887-7473

Received: 07/03/2014 Sampling Date: 07/02/2014

Reported: 07/03/2014 Sampling Type: Soil

Project Name: BASS PALMILLO SWD #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EDDY COUNTY, NM

Sample ID: #6 @ 15' (H402025-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	07/03/2014	ND	400	100	400	3.92	

## Sample ID: #6 @ 18' (H402025-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/03/2014	ND	400	100	400	3.92	

### Sample ID: #3 @ 19'6" (H402025-03)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	07/03/2014	ND	400	100	400	3.92	

### Sample ID: W @ 6" (H402025-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	07/03/2014	ND	400	100	400	3.92	

Cardinal Laboratories \*=Accredited Analyte

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### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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\*\*\* Insufficient time to reach temperature.

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Samples reported on an as received basis (wet) unless otherwise noted on report

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Dol co 12.	BIL	L TO ANALYSIS	IS REQUEST
Project Manager: TONY SAVOIE	P.O. #:		- 1
Address:	Company: Bopco	opeo LP.	
City: State:	Zip: Attn: Towy	SAVOIE	
Phone #: Fax #:	Address:		
Project #: Project Owner:	ner: City:		
Project Name: BASS PALMILLO 3 S.	State:	Zip:	
Project Location: N/E OF CARLS BAD, N.M.	Phone #:		
7 2			
FOR LAB USE ONLY		SAMPLING	
Lab I.D. Sample I.D. H402025	(G)RAB OR (C)(G)RAB OR (C)(G) # CONTAINERS GROUNDWATE WASTEWATER SOIL DIL SLUDGE DTHER: ACID/BASE: CE / COOL DTHER:	DATE TIME CL	
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8/8047	,,		
219		11/11/11/11/11/11/11	
1 WB 6"	2	11 3:00 (	
Carriages. Cardinars liability and client those for negligence and any other cau linal be fiable for incidental or consequi out of or related to the performance of	is exclusive remedy for any claim arising whether based in confract or tort, shall be limited to the amount paid by the client for the are whatsoever shall be desired waived unless made in with 0 and received by Cardinal whith 30 days after completion of the a netal damages, including without firstation, business interruptions, loss of lues, or loss of profits incurred by client, its subsidiaries services thereinfield by Cardinal regardless of whither such claims is beand sono and this above.	e amount paid by the client for the 130 days after completion of the applicable incurred by client, its subsidiaries,	
relinquished By:  Date: 7-3-/4  Time: 7:5-4  Time: 1:5-4  Time: 1:5-4	Received By:	Phone Result:	**
Delivered By: (Circle One)	Sample Condition CHECKED BY:  Cool Intage (Intials)	BY:	
	Sample Condition Cool Intact	BY:	



July 07, 2014

TONY SAVOIE

**Bass Enterprises** 

522 W. Mermod #709

Carlsbad, NM 88220

RE: BASS PALMILLO SWD #3

Enclosed are the results of analyses for samples received by the laboratory on 07/03/14 16:42.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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



Bass Enterprises TONY SAVOIE 522 W. Mermod #709 Carlsbad NM, 88220

Fax To: (505) 887-7473

Received: 07/03/2014 Sampling Date: 07/03/2014

Reported: 07/07/2014 Sampling Type: Soil

Project Name: BASS PALMILLO SWD #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: #10 @ 2' (H402041-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	07/07/2014	ND	416	104	400	3.92	

### Sample ID: #10 @ 5' (H402041-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	07/07/2014	ND	416	104	400	3.92	

# Sample ID: #10 @ 17'4" (H402041-03)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	07/07/2014	ND	416	104	400	3.92	

# Sample ID: #11 @ 2' (H402041-04)

Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	07/07/2014	ND	416	104	400	3.92	

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Bass Enterprises TONY SAVOIE 522 W. Mermod #709 Carlsbad NM, 88220

Fax To: (505) 887-7473

Received: 07/03/2014 Sampling Date: 07/03/2014

Reported: 07/07/2014 Sampling Type: Soil

Project Name: BASS PALMILLO SWD #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: #11 @ 5' (H402041-05)

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

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

**Chloride 12700** 16.0 07/07/2014 ND 416 104 400 3.92

Sample ID: #11 @ 18'9" (H402041-06)

Chloride, SM4500Cl-B Analyzed By: AP Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result % Recovery Chloride 2480 16.0 07/07/2014 416 104 400 3.92 ND

Cardinal Laboratories \*=Accredited Analyte

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### **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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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476	3-2476		
Company Name: Box Co. L.P.		BILL TO	ANALTSIS NEGOCIO
Project Manager: 184 \ SAVO 16		P.O. #:	
1		Company: Bop co	
City: State:	Zip:	Attn: TONY SHIOUS	
Phone #: Fax #:		Address:	
Project #: Project Owner:		City:	
amo: Rose Pal mill	0	State: Zip:	
1/8 of		Phone #:	
0		Fax #:	
Sampler Name: You knear	L	DRESERV SAMPLING	
	VATER		
Lab I.D. Sample I.D.	(G)RAB OR # CONTAIN GROUNDW WASTEWA' SOIL QIL SLUDGE		TIME
7 1002	7	1 +1/61.	11:00 J Dunce
かんしののはい	2	, 5	7 34:11
U #110 2'	0 -	1	245
2011	6 1 1		1:15
6 181819"	0	<	2:30
		•	
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 the client for the applicable 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 30 days after completion of the applicable 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 30 days after completion of the applicable.	nemedy for any claim arising whether based in contract ever shall be deemed waived unless made in writing an ness, including without limitation, business interruptions,	t or tort, shall be limited to the amount paid to direceived by Cardinal within 30 days after o loss of use, or loss of profits incurred by clie	y the client for the ompletion of the applicable nt, its subsidiaries.
service, in no event shall Castrata be state for reclaims on wheelpeans at states or successors arising out of or related to the performance of services by a financial shed By:  Date:	vices hereunder by Cardinal, regardless of whether such claim ate: Received By:	is based upon any of the above stated reas	Description of the state of the
Mean	, r	enson	
Relinquished By: Date:	Received By:		
Time:			
Delivered By: (Circle One)	Sample Condition	tion CHECKED BY:	

Sampler - UPS - Bus - Other:



July 08, 2014

TONY SAVOIE

**Bass Enterprises** 

522 W. Mermod #709

Carlsbad, NM 88220

RE: BASS PALMILLO SWD #3

Enclosed are the results of analyses for samples received by the laboratory on 07/08/14 8:00.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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



Bass Enterprises TONY SAVOIE 522 W. Mermod #709 Carlsbad NM, 88220

Fax To: (505) 887-7473

Received: 07/08/2014 Sampling Date: 07/07/2014

Reported: 07/08/2014 Sampling Type: Soil

Project Name: BASS PALMILLO SWD #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: #12 @ 2' (H402056-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/08/2014	ND	416	104	400	0.00	

### Sample ID: #12 @ 10' (H402056-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3240	16.0	07/08/2014	ND	416	104	400	0.00	

### Sample ID: #12 @ 18' (H402056-03)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	07/08/2014	ND	416	104	400	0.00		

# Sample ID: #13 @ 9' (H402056-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3880	16.0	07/08/2014	ND	416	104	400	0.00	

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Bass Enterprises TONY SAVOIE 522 W. Mermod #709 Carlsbad NM, 88220

Fax To: (505) 887-7473

Received: 07/08/2014 Sampling Date: 07/07/2014

Reported: 07/08/2014 Sampling Type: Soil

Project Name: BASS PALMILLO SWD #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

07/08/2014

Project Location: EDDY COUNTY, NM

2920

16.0

Sample ID: #13 @ 13' (H402056-05)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

ND

416

104

400

0.00

Sample ID: #13 @ 19' (H402056-06)

Chloride

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result % Recovery Chloride 1150 16.0 07/08/2014 416 104 400 0.00 ND

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 whistoever 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.



### **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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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Rep Co. LP.		BILL TO	ANALYSIS BEOLIEST
Project Manager: Tony Savois	P.O. #:		CHARLE CO. C.
Address:	Company:	my: Bopco, LP.	
City: State:	Zip: Attn:	· ~	
Phone #: Fax #:	Address:	\$6:	
Project #: Project Owner:	city:		
Project Name: BASS PALMILLO SWO #3		Zip:	
Project Location: N/E of CARLS 69d, N/M	.5		
Sampler Name: for Licen			
FOR LAB USE ONLY	MATRIX PRE	PRESERV SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE OTHER: ACID/BASE:	OTHER:	CL
1 #12 62	-	7/7/14	
2 #12 6/0	0	10:45	
8/92/4	0	,	1 10030
5 # 30 9	200		
100 101			
0 " 136 19"	5	11 2:30	
PLEASE NOTE: Liability and Damages. Cardinal's liability and clent's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	any claim arising whether based in contract or tort, shall b	e limited to the amount paid by the client for he	
analyses. All claims including those for regigence and any other cause whatsoever shall be deemed waived unless made in writing and received by Caddinal within 20 days after comprehens the comprehens and the annual control of the comprehens the c	deemed waived unless made in writing and received by C	Cardinal within 30 days after completion of the a	and the state of t

280

CHECKED BY:

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Relinquished By:

Sar

Time : 00 Date: 7-8-14

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes ☐ No Add'I Phone #:

dugrea valornet.com

Time:

Relinquished By:



July 14, 2014

TONY SAVOIE

**Bass Enterprises** 

522 W. Mermod #709

Carlsbad, NM 88220

RE: BASS PALMILLO SWD #3

Enclosed are the results of analyses for samples received by the laboratory on 07/11/14 15:40.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



Bass Enterprises TONY SAVOIE 522 W. Mermod #709 Carlsbad NM, 88220

Fax To: (505) 887-7473

Received: 07/11/2014 Sampling Date: 07/11/2014

Reported: 07/14/2014 Sampling Type: Soil

Project Name: BASS PALMILLO SWD #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

## Sample ID: #16 @ 5' (H402116-01)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	07/14/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/14/2014	ND	182	91.0	200	1.59	
DRO >C10-C28	2090	50.0	07/14/2014	ND	201	100	200	1.48	
EXT DRO >C28-C35	448	50.0	07/14/2014	ND					
Surrogate: 1-Chlorooctane	110 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	170 %	% 63.6-15	4						

### Sample ID: #16 @ 11' (H402116-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14700	16.0	07/14/2014	ND	400	100	400	3.92	

# Sample ID: #16 @ 20' (H402116-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11900	16.0	07/14/2014	ND	400	100	400	3.92	

Cardinal Laboratories \*=Accredited Analyte

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Bass Enterprises TONY SAVOIE 522 W. Mermod #709 Carlsbad NM, 88220

Fax To: (505) 887-7473

Received: 07/11/2014 Sampling Date: 07/11/2014

Reported: 07/14/2014 Sampling Type: Soil

Project Name: BASS PALMILLO SWD #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: #15 @ 5' (H402116-04)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 3840 07/14/2014 ND 400 400 3.92 16.0 100

Sample ID: #15 @ 11' (H402116-05)

Chloride, SM4500Cl-B Analyzed By: AP mg/kg Reporting Limit Analyzed BS True Value QC RPD Qualifier Analyte Result Method Blank % Recovery Chloride 5600 16.0 07/14/2014 400 400 3.92 ND 100

Sample ID: #15 @ 16' (H402116-06)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 2920 07/14/2014 ND 400 400 3.92 16.0 100

Cardinal Laboratories \*=Accredited Analyte

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### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

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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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company wante. Boco LP.	BILL TO	- 1
Project Manager: TONY SAVOIE	P.O. #:	ANALISIS ARQUEST
Address:	Company: Boco / P.	
City: State:	W SAVOIE	
Phone #: Fax #:	Address:	
1		
Project Name: BASS PALMILLO SWO#3		
Project Location: N/E of CARLS byd	Phone #:	
Sampler Name: Son Mean		
FOR LAB USE ONLY		
Lab I.D. Sample I.D.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	CL TPH
7 #168 11'	1 h	
3 #160 20	611 1 1 1 1 1 2	H3/18 5 1
2 4 2 4 2 L	St. 11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	11/21/
191 851,	7	
nalyses. All chaims including those for negligence and any other cause whatsoever shall be derivce. In no event shall cardinal be liable for incidental or consequential damages, including fillates or successors arising out of or related to the performance of services hereunder by Ca		or the  or applicable  artes a  artes  tes,  tes
Relinquished By:  Date:	Received By:	sult: □ Yes □ No Add'l Phone #: It: □ Yes □ No Add'l Fax #: S:
Time:		
Delivered By: (Circle One)		
Sampler - UPS - Bus - Other:	L des Tyes	



August 06, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BASS 03 SWD

Enclosed are the results of analyses for samples received by the laboratory on 07/29/14 14:15.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

(0.0)

 Received:
 07/29/2014
 Sampling Date:
 07/29/2014

 Reported:
 08/06/2014
 Sampling Type:
 Soil

Project Name: BASS 03 SWD Sampling Condition: \*\* (See Notes)
Project Number: [none] Sample Received By: Kathy Perez

Project Location: EDDY COUNTY, NM

Sample ID: SB - 2 @ 70' (H402319-01)

Chloride, SM4500Cl-B Analyzed By: AP mg/kg Analyte Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Oualifier Result 880 ND 400 Chloride 16.0 07/29/2014 416 104 3.92

### Sample ID: SB - 2 @ 75' (H402319-02)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	07/29/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/05/2014	10.1	197	98.5	200	1.02	
DRO >C10-C28	<10.0	10.0	08/05/2014	ND	207	103	200	0.873	
EXT DRO >C28-C35	<10.0	10.0	08/05/2014	ND					
Surrogate: 1-Chlorooctane	92.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.9	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

 Received:
 07/29/2014
 Sampling Date:
 07/29/2014

 Reported:
 08/06/2014
 Sampling Type:
 Soil

Project Name: BASS 03 SWD Sampling Condition: \*\* (See Notes)
Project Number: [none] Sample Received By: Kathy Perez

Project Location: EDDY COUNTY, NM

### Sample ID: SB - 2 @ 78' (H402319-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2014	ND	2.07	103	2.00	1.58	
Toluene*	<0.050	0.050	08/05/2014	ND	2.10	105	2.00	1.01	
Ethylbenzene*	<0.050	0.050	08/05/2014	ND	2.13	106	2.00	1.52	
Total Xylenes*	<0.150	0.150	08/05/2014	ND	6.66	111	6.00	3.49	
Total BTEX	<0.300	0.300	08/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	07/29/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/05/2014	10.1	197	98.5	200	1.02	
DRO >C10-C28	<10.0	10.0	08/05/2014	ND	207	103	200	0.873	
EXT DRO >C28-C35	<10.0	10.0	08/05/2014	ND					
Surrogate: 1-Chlorooctane	78.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	81.4	% 63.6-15	4						

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### **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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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

12/1 /20 1111 /21 211		Time:
& RUSH & TOHLATER	Thy W	Relinquished By:  Date: Received By:
ılt: □ Yes		Jod/14 Re
es,	sead in contract or tight, shall be immed to the amounts pass or time them has a te in walking and affectived by Cardinali within 30 days after completion of the a interruptions, loss of use, by loss of profits mourred by client, its suitabiliaries, her such claim is based uponhanty of the above stated reasons of otherwise.	PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remaily for any claim arising whether based in contract or rigit, shall be minde to the amount paut by the creen no vive analyses. All claims including those for negligence and any other cause whatherever shall be deemed waived unless made in writing and indexed by Cardinal within 30 days after competion of the applicable service. In no event shall Cardinal be the inclinal or consequential damages, including without firstation, business interruptions, lodg of use, by loss of profits noturned by cleon, its subsidiaries, service. In no event shall Cardinal be above stated in the consequence of services in the consequence of the profits of the consequence of services and the consequence of the consequence o
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	MATRIX PRESERV SAMPLING	
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	Phone #:	on: Eddy
Ped -	State: Zip:	Project Name: BASS 03 SWD
8	CF city:	Project #: Project Owner: \$0,000, U
<del>/</del> <del> </del>	Address:	Phone #: (5%)3% 33% Fax #:
	) Attn: T. 54V0; e	City: Louinglan state: N/ Zip: 58260
	Company: BORCO, LP	Address: 3/00 Phins Phy.
	P.O. #:	Project Manager: & Arguijo
ANALTSIS REQUEST	BILL TO	Company Name: Besin Environmental
ANALYSIS DECLIEST		(010) 000-2020 (010) 000

Sample Condition
Cool Intact
Yes 4765
No No

CHECKED BY:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:



August 12, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BASS 03 SWD

Enclosed are the results of analyses for samples received by the laboratory on 08/04/14 16:30.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/04/2014

Reported: 08/12/2014
Project Name: BASS 03 SWD
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 07/28/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB-1 @ 20' (H402383-01)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte Reporting Limit Analyzed Method Blank BS % Recovery True Value OC RPD Oualifier Result 400 Chloride 1730 16.0 08/07/2014 ND 100 400 0.00

Sample ID: SB-1 @ 25' (H402383-02)

Chloride, SM4500Cl-B Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 864 16.0 08/07/2014 ND 400 100 400 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 08/06/2014 ND 198 99.1 200 1.77 DRO >C10-C28 08/06/2014 200 <10.0 10.0 ND 200 100 0.848 EXT DRO >C28-C35 10.0 08/06/2014 ND <10.0 Surrogate: 1-Chlorooctane 83.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.6 % 63.6-154

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/04/2014 Sampling Date: 07/28/2014 Reported: 08/12/2014 Sampling Type: Soil

Project Name: BASS 03 SWD Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

## Sample ID: SB-1 @ 30' (H402383-03)

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	08/05/2014	ND	1.73	86.5	2.00	9.08	
Toluene*	<0.050	0.050	08/05/2014	ND	1.73	86.5	2.00	8.92	
Ethylbenzene*	<0.050	0.050	08/05/2014	ND	1.70	85.2	2.00	9.77	
Total Xylenes*	<0.150	0.150	08/05/2014	ND	5.48	91.4	6.00	10.8	
Total BTEX	<0.300	0.300	08/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	08/07/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2014	ND	198	99.1	200	1.77	
DRO >C10-C28	<10.0	10.0	08/06/2014	ND	200	100	200	0.848	
EXT DRO >C28-C35	<10.0	10.0	08/06/2014	ND					
Surrogate: 1-Chlorooctane	87.5 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	89.69	63.6-15	4						

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Jodi Henson

Sample Received By:



# Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/04/2014 Sampling Date: 07/29/2014

Reported: 08/12/2014 Sampling Type: Soil
Project Name: BASS 03 SWD Sampling Condition: Cool & Intact

Project Location: EDDY COUNTY, NM

NONE GIVEN

### Sample ID: SB-2 @ 5' (H402383-04)

Project Number:

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6160	16.0	08/07/2014	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2014	ND	198	99.1	200	1.77	
DRO >C10-C28	<10.0	10.0	08/06/2014	ND	200	100	200	0.848	
EXT DRO >C28-C35	<10.0	10.0	08/06/2014	ND					
Surrogate: 1-Chlorooctane	89.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.4	% 63.6-15	4						

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Jodi Henson

Sample Received By:



# Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/04/2014 Sampling Date: 07/29/2014

Reported: 08/12/2014 Sampling Type: Soil
Project Name: BASS 03 SWD Sampling Condition: Cool & Intact

Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

## Sample ID: SB-2 @ 10' (H402383-05)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2014	ND	1.73	86.5	2.00	9.08	
Toluene*	<0.050	0.050	08/05/2014	ND	1.73	86.5	2.00	8.92	
Ethylbenzene*	<0.050	0.050	08/05/2014	ND	1.70	85.2	2.00	9.77	
Total Xylenes*	<0.150	0.150	08/05/2014	ND	5.48	91.4	6.00	10.8	
Total BTEX	<0.300	0.300	08/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	08/07/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2014	ND	198	99.1	200	1.77	
DRO >C10-C28	<10.0	10.0	08/06/2014	ND	200	100	200	0.848	
EXT DRO >C28-C35	<10.0	10.0	08/06/2014	ND					
Surrogate: 1-Chlorooctane	93.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	103	% 63.6-15	4						

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Basin Environmental Service BEN J. ARGUIJO

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/04/2014 Sampling Date: 07/29/2014

Reported: 08/12/2014 Sampling Type: Soil

Project Name: BASS 03 SWD Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

## Sample ID: SB-2 @ 30' (H402383-06)

Chloride, SM4500Cl-B mg/kg		/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	08/07/2014	ND	400	100	400	0.00	

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/04/2014 Sampling Date: 07/29/2014

Reported: 08/12/2014 Sampling Type: Soil

Project Name: BASS 03 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: EDDY COUNTY, NM

ma/ka

# Sample ID: SB-2 @ 45' (H402383-07)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2014	ND	1.73	86.5	2.00	9.08	
Toluene*	<0.050	0.050	08/05/2014	ND	1.73	86.5	2.00	8.92	
Ethylbenzene*	<0.050	0.050	08/05/2014	ND	1.70	85.2	2.00	9.77	
Total Xylenes*	<0.150	0.150	08/05/2014	ND	5.48	91.4	6.00	10.8	
Total BTEX	<0.300	0.300	08/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	08/07/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<20.0	20.0	08/06/2014	ND	198	99.1	200	1.77	
DRO >C10-C28	<10.0	10.0	08/06/2014	ND	200	100	200	0.848	
EXT DRO >C28-C35	<10.0	10.0	08/06/2014	ND					
Surrogate: 1-Chlorooctane	87.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.7	% 63.6-15	4						

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/04/2014 Sampling Date: 07/29/2014

Reported: 08/12/2014 Sampling Type: Soil

Project Name: BASS 03 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SB-2 @ 60' (H402383-08)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

**Chloride** 480 16.0 08/07/2014 ND 400 100 400 0.00

Sample ID: SB-2 @ 95' (H402383-09)

Chloride, SM4500Cl-B Analyzed By: AP mg/kg Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result Reporting Limit % Recovery <16.0 16.0 08/07/2014 400 400 0.00 Chloride ND 100

Sample ID: SB-3 (BACKGROUND) @ SURFACE (H402383-10)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier 08/07/2014 ND 400 400 0.00 Chloride <16.0 16.0 100

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/04/2014 Sampling Date: 07/30/2014

Reported: 08/12/2014 Sampling Type: Soil

Project Name: BASS 03 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

# Sample ID: SB-3 (BACKGROUND) @ 5' (H402383-11)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/07/2014	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2014	ND	198	99.1	200	1.77	
DRO >C10-C28	<10.0	10.0	08/06/2014	ND	200	100	200	0.848	
EXT DRO >C28-C35	<10.0	10.0	08/06/2014	ND					
Surrogate: 1-Chlorooctane	87.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	87.4	% 63.6-15	4						

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/04/2014 Sampling Date: 07/30/2014 Reported: 08/12/2014 Sampling Type: Soil

Project Name: BASS 03 SWD Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

## Sample ID: SB-3 (BACKGROUND) @ 10' (H402383-12)

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	08/05/2014	ND	1.73	86.5	2.00	9.08	
Toluene*	<0.050	0.050	08/05/2014	ND	1.73	86.5	2.00	8.92	
Ethylbenzene*	<0.050	0.050	08/05/2014	ND	1.70	85.2	2.00	9.77	
Total Xylenes*	<0.150	0.150	08/05/2014	ND	5.48	91.4	6.00	10.8	
Total BTEX	<0.300	0.300	08/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/07/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2014	ND	198	99.1	200	1.77	
DRO >C10-C28	<10.0	10.0	08/06/2014	ND	200	100	200	0.848	
EXT DRO >C28-C35	<10.0	10.0	08/06/2014	ND					
Surrogate: 1-Chlorooctane	80.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	89.1	% 63 6-15	4						

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Fax To: (575) 396-1429

Received: 08/04/2014 Sampling Date: 07/30/2014

Reported: 08/12/2014 Sampling Type: Soil

Project Name: BASS 03 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

### Sample ID: SB-3 (BACKGROUND) @ 15' (H402383-13)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/07/2014	ND	400	100	400	0.00	

### Sample ID: SB-3 (BACKGROUND) @ 20' (H402383-14)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/07/2014	ND	400	100	400	0.00	

# Sample ID: SB-3 (BACKGROUND) @ 25' (H402383-15)

Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	_
Chloride	80.0	16.0	08/07/2014	ND	400	100	400	0.00		

### Sample ID: SB-3(BACKGROUND) @ 30' (H402383-16)

Chloride, SM4500Cl-B		mg,	/kg	Analyze	d By: HM					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	Chloride	48.0	16.0	08/08/2014	ND	400	100	400	0.00	

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Fax To: (575) 396-1429

 Received:
 08/04/2014
 Sampling Date:
 07/30/2014

 Reported:
 08/12/2014
 Sampling Type:
 Soil

Project Name: BASS 03 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

### Sample ID: SB-4 @ 5' (H402383-17)

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	08/08/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2014	ND	198	99.1	200	1.77	
DRO >C10-C28	<10.0	10.0	08/06/2014	ND	200	100	200	0.848	
EXT DRO >C28-C35	<10.0	10.0	08/06/2014	ND					
Surrogate: 1-Chlorooctane	86.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	92.7	% 63.6-15	4						

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Fax To: (575) 396-1429

Received: 08/04/2014 Reported:

08/12/2014

Project Name: BASS 03 SWD Project Number: NONE GIVEN Project Location: EDDY COUNTY, NM Sampling Date: 07/30/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

## Sample ID: SB-4 @ 10' (H402383-18)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2014	ND	1.73	86.5	2.00	9.08	
Toluene*	<0.050	0.050	08/05/2014	ND	1.73	86.5	2.00	8.92	
Ethylbenzene*	<0.050	0.050	08/05/2014	ND	1.70	85.2	2.00	9.77	
Total Xylenes*	<0.150	0.150	08/05/2014	ND	5.48	91.4	6.00	10.8	
Total BTEX	<0.300	0.300	08/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 89.4-12	6						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7360	16.0	08/08/2014	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2014	ND	198	99.1	200	1.77	
DRO >C10-C28	<10.0	10.0	08/06/2014	ND	200	100	200	0.848	
EXT DRO >C28-C35	<10.0	10.0	08/06/2014	ND					
Surrogate: 1-Chlorooctane	94.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	100	% 63.6-15	4						

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Fax To: (575) 396-1429

Received: 08/04/2014 Sampling Date: 07/30/2014

Reported: 08/12/2014 Sampling Type: Soil

Project Name: BASS 03 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

### Sample ID: SB-4 @ 25' (H402383-19)

Chloride, SM4500CI-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	08/08/2014	ND	400	100	400	0.00	

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 Received:
 08/04/2014
 Sampling Date:
 07/30/2014

 Reported:
 08/12/2014
 Sampling Type:
 Soil

Reported:08/12/2014Sampling Type:SoilProject Name:BASS 03 SWDSampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

Analyzed By: MC

Project Location: EDDY COUNTY, NM

ma/ka

### Sample ID: SB-4 @ 40' (H402383-20)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2014	ND	1.73	86.5	2.00	9.08	
Toluene*	<0.050	0.050	08/05/2014	ND	1.73	86.5	2.00	8.92	
Ethylbenzene*	<0.050	0.050	08/05/2014	ND	1.70	85.2	2.00	9.77	
Total Xylenes*	<0.150	0.150	08/05/2014	ND	5.48	91.4	6.00	10.8	
Total BTEX	<0.300	0.300	08/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	08/08/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2014	ND	198	99.1	200	1.77	
DRO >C10-C28	<10.0	10.0	08/06/2014	ND	200	100	200	0.848	
EXT DRO >C28-C35	<10.0	10.0	08/06/2014	ND					
Surrogate: 1-Chlorooctane	90.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.8	% 63.6-15	4						

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Fax To: (575) 396-1429

Received: 08/04/2014 Sampling Date: 07/30/2014 Reported: 08/12/2014 Sampling Type: Soil

Project Name: BASS 03 SWD Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

### Sample ID: SB-4 @ 60' (H402383-21)

Chloride, SM4500CI-B	4500Cl-B mg/kg			d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	08/08/2014	ND	400	100	400	0.00	

### Sample ID: SB-4 @ 70' (H402383-22)

Chloride, SM4500CI-B	mg,	mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS %	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>4640</b> 16.0		08/08/2014	ND	400	100	400	0.00	
TPH 8015M	15M mg/kg			d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2014	ND	198	99.1	200	1.77	
DRO >C10-C28	<10.0	10.0	08/06/2014	ND	200	100	200	0.848	
EXT DRO >C28-C35	<10.0	10.0	08/06/2014	ND					
Surrogate: 1-Chlorooctane	87.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	90.1	% 63.6-15	4						

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Fax To: (575) 396-1429

 Received:
 08/04/2014
 Sampling Date:
 07/30/2014

 Reported:
 08/12/2014
 Sampling Type:
 Soil

Reported:08/12/2014Sampling Type:SoilProject Name:BASS 03 SWDSampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

Analyzed By: MC

Project Location: EDDY COUNTY, NM

ma/ka

### Sample ID: SB-4 @ 73' (H402383-23)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2014	ND	1.73	86.5	2.00	9.08	
Toluene*	<0.050	0.050	08/05/2014	ND	1.73	86.5	2.00	8.92	
Ethylbenzene*	<0.050	0.050	08/05/2014	ND	1.70	85.2	2.00	9.77	
Total Xylenes*	<0.150	0.150	08/05/2014	ND	5.48	91.4	6.00	10.8	
Total BTEX	<0.300	0.300	08/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	08/08/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2014	ND	198	99.1	200	1.77	
DRO >C10-C28	<10.0	10.0	08/06/2014	ND	200	100	200	0.848	
EXT DRO >C28-C35	<10.0	10.0	08/06/2014	ND					
Surrogate: 1-Chlorooctane	86.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.2	% 63.6-15	4						

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07/30/2014



# Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/04/2014 Sampling Date:
Reported: 08/12/2014 Sampling Type:

Reported:08/12/2014Sampling Type:SoilProject Name:BASS 03 SWDSampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

Project Location: EDDY COUNTY, NM

### Sample ID: SB-4 @ 95' (H402383-24)

Chloride, SM4500Cl-B	500Cl-B mg/kg			d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	08/08/2014	ND	400	100	400	0.00	

### Sample ID: SB-5 @ 5' (H402383-25)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	08/08/2014	ND	400	100	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	08/06/2014	ND	198	99.1	200	1.77	
DRO >C10-C28	16.6	10.0	08/06/2014	ND	200	100	200	0.848	
EXT DRO >C28-C35	10.8	10.0	08/06/2014	ND					
Surrogate: 1-Chlorooctane	82.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	94.2	% 63.6-15	4						

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Fax To: (575) 396-1429

 Received:
 08/04/2014
 Sampling Date:
 07/31/2014

 Reported:
 08/12/2014
 Sampling Type:
 Soil

Reported:08/12/2014Sampling Type:SoilProject Name:BASS 03 SWDSampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

Project Location: EDDY COUNTY, NM

# Sample ID: SB-5 @ 10' (H402383-26)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2014	ND	1.73	86.5	2.00	9.08	
Toluene*	<0.050	0.050	08/06/2014	ND	1.73	86.5	2.00	8.92	
Ethylbenzene*	<0.050	0.050	08/06/2014	ND	1.70	85.2	2.00	9.77	
Total Xylenes*	<0.150	0.150	08/06/2014	ND	5.48	91.4	6.00	10.8	
Total BTEX	<0.300	0.300	08/06/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	08/08/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/06/2014	ND	198	99.1	200	1.77	
DRO >C10-C28	<10.0	10.0	08/06/2014	ND	200	100	200	0.848	
EXT DRO >C28-C35	<10.0	10.0	08/06/2014	ND					
Surrogate: 1-Chlorooctane	79.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.8	% 63.6-15	4						

# Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service BEN J. ARGUIJO

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/04/2014 Sampling Date: 07/31/2014

Reported: 08/12/2014 Sampling Type: Soil

Project Name: BASS 03 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

### Sample ID: SB-5 @ 25' (H402383-27)

Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	08/08/2014	ND	400	100	400	0.00	

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07/31/2014



# **Analytical Results For:**

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/04/2014 Sampling Date:
Reported: 08/12/2014 Sampling Type:

Reported:08/12/2014Sampling Type:SoilProject Name:BASS 03 SWDSampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

Project Location: EDDY COUNTY, NM

## Sample ID: SB-5 @ 40' (H402383-28)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2014	ND	2.08	104	2.00	8.22	
Toluene*	<0.050	0.050	08/06/2014	ND	2.13	107	2.00	8.36	
Ethylbenzene*	<0.050	0.050	08/06/2014	ND	2.16	108	2.00	8.86	
Total Xylenes*	<0.150	0.150	08/06/2014	ND	6.75	112	6.00	8.92	
Total BTEX	<0.300	0.300	08/06/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	08/08/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/05/2014	ND	201	101	200	3.43	
DRO >C10-C28	<10.0	10.0	08/05/2014	ND	209	105	200	6.60	
EXT DRO >C28-C35	<10.0	10.0	08/05/2014	ND					
Surrogate: 1-Chlorooctane	101 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107 9	% 63.6-15	4						
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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

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Received: 08/04/2014 Sampling Date: 07/31/2014

Reported: 08/12/2014 Sampling Type: Soil
Project Name: BASS 03 SWD Sampling Condition: Cool

Project Name: BASS 03 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

### Sample ID: SB-5 @ 60' (H402383-29)

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	08/08/2014	ND	400	100	400	0.00	

# Sample ID: SB-5 @ 65' (H402383-30)

Chloride, SM4500Cl-B  Analyte	mg/kg		Analyzed By: HM						
	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	% Recovery	True Value QC	RPD	Qualifier
Chloride	11800	16.0	08/08/2014	ND	400	100	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	08/05/2014	ND	201	101	200	3.43	
DRO >C10-C28	<10.0	10.0	08/05/2014	ND	209	105	200	6.60	
EXT DRO >C28-C35	<10.0	10.0	08/05/2014	ND					
Surrogate: 1-Chlorooctane	100 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104 9	% 63.6-15	4						

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/04/2014

Reported: 08/12/2014 Project Name: BASS 03 SWD Project Number: NONE GIVEN Project Location: EDDY COUNTY, NM Sampling Date: 07/31/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

## Sample ID: SB-5 @ 70' (H402383-31)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2014	ND	2.08	104	2.00	8.22	
Toluene*	<0.050	0.050	08/11/2014	ND	2.13	107	2.00	8.36	
Ethylbenzene*	<0.050	0.050	08/11/2014	ND	2.16	108	2.00	8.86	
Total Xylenes*	<0.150	0.150	08/11/2014	ND	6.75	112	6.00	8.92	
Total BTEX	<0.300	0.300	08/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9400	16.0	08/08/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/05/2014	ND	201	101	200	3.43	
DRO >C10-C28	<10.0	10.0	08/05/2014	ND	209	105	200	6.60	
EXT DRO >C28-C35	<10.0	10.0	08/05/2014	ND					
Surrogate: 1-Chlorooctane	103 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	110 9	63.6-15	4						

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Fax To: (575) 396-1429

Received: 08/04/2014 Sampling Date: 07/31/2014

Reported: 08/12/2014 Sampling Type: Soil

Project Name: BASS 03 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

## Sample ID: SB-5 @ 105' (H402383-32)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	08/08/2014	ND	400	100	400	0.00	

## Sample ID: SB-5 @ 125' (H402383-33)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/08/2014	ND	400	100	400	0.00	

## Sample ID: SB-6 @ 5' (H402383-34)

Surrogate: 1-Chlorooctadecane

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	08/08/2014	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/05/2014	ND	201	101	200	3.43	
DRO >C10-C28	<10.0	10.0	08/05/2014	ND	209	105	200	6.60	
EXT DRO >C28-C35	<10.0	10.0	08/05/2014	ND					
Surrogate: 1-Chlorooctane	97.4	% 65.2-14	0						

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Celeg D. Freene

104 %

63.6-154

Jodi Henson

Sample Received By:



## Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/04/2014 Sampling Date: 07/31/2014

Reported: 08/12/2014 Sampling Type: Soil
Project Name: BASS 03 SWD Sampling Condition: Cool & Intact

Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

ma/ka

## Sample ID: SB-6 @ 10' (H402383-35)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2014	ND	2.08	104	2.00	8.22	
Toluene*	<0.050	0.050	08/06/2014	ND	2.13	107	2.00	8.36	
Ethylbenzene*	<0.050	0.050	08/06/2014	ND	2.16	108	2.00	8.86	
Total Xylenes*	<0.150	0.150	08/06/2014	ND	6.75	112	6.00	8.92	
Total BTEX	<0.300	0.300	08/06/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	08/08/2014	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/05/2014	ND	201	101	200	3.43	
DRO >C10-C28	<10.0	10.0	08/05/2014	ND	209	105	200	6.60	
EXT DRO >C28-C35	<10.0	10.0	08/05/2014	ND					
Surrogate: 1-Chlorooctane	100	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108	% 63.6-15	4						

Analyzed By: MC

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Basin Environmental Service BEN J. ARGUIJO

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/04/2014 Sampling Date: 07/31/2014

Reported: 08/12/2014 Sampling Type: Soil

Project Name: BASS 03 SWD Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

## Sample ID: SB-6 @ 20' (H402383-36)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	08/06/2014	ND	416	104	400	8.00	

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Jodi Henson

Sample Received By:



## Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/04/2014 Sampling Date: 07/31/2014

Reported: 08/12/2014 Sampling Type: Soil
Project Name: BASS 03 SWD Sampling Condition: Cool & Intact

Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

## Sample ID: SB-6 @ 40' (H402383-37)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2014	ND	2.08	104	2.00	8.22	
Toluene*	<0.050	0.050	08/06/2014	ND	2.13	107	2.00	8.36	
Ethylbenzene*	<0.050	0.050	08/06/2014	ND	2.16	108	2.00	8.86	
Total Xylenes*	<0.150	0.150	08/06/2014	ND	6.75	112	6.00	8.92	
Total BTEX	<0.300	0.300	08/06/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 89.4-12	6						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	08/06/2014	ND	416	104	400	8.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/05/2014	ND	201	101	200	3.43	
DRO >C10-C28	<10.0	10.0	08/05/2014	ND	209	105	200	6.60	
EXT DRO >C28-C35	<10.0	10.0	08/05/2014	ND					
Surrogate: 1-Chlorooctane	95.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	100	% 63.6-15	4						

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

 Received:
 08/04/2014
 Sampling Date:
 07/31/2014

 Reported:
 08/12/2014
 Sampling Type:
 Soil

Reported:08/12/2014Sampling Type:SoilProject Name:BASS 03 SWDSampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi Henson

Project Location: EDDY COUNTY, NM

## Sample ID: SB-6 @ 60' (H402383-38)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	08/06/2014	ND	416	104	400	8.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/05/2014	ND	201	101	200	3.43	
DRO >C10-C28	<10.0	10.0	08/05/2014	ND	209	105	200	6.60	
EXT DRO >C28-C35	<10.0	10.0	08/05/2014	ND					
Surrogate: 1-Chlorooctane	104	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	110	% 63.6-15	4						

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Fax To: (575) 396-1429

Received: 08/04/2014 Sampling Date: 07/31/2014

Reported: 08/12/2014 Sampling Type: Soil

EDDY COUNTY, NM

109 %

63.6-154

Project Name: BASS 03 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Sample ID: SB-6 @ 65' (H402383-39)

Project Location:

Surrogate: 1-Chlorooctadecane

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2014	ND	2.08	104	2.00	8.22	
Toluene*	<0.050	0.050	08/06/2014	ND	2.13	107	2.00	8.36	
Ethylbenzene*	<0.050	0.050	08/06/2014	ND	2.16	108	2.00	8.86	
Total Xylenes*	<0.150	0.150	08/06/2014	ND	6.75	112	6.00	8.92	
Total BTEX	<0.300	0.300	08/06/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	08/06/2014	ND	416	104	400	8.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/05/2014	ND	201	101	200	3.43	
DRO >C10-C28	<10.0	10.0	08/05/2014	ND	209	105	200	6.60	
EXT DRO >C28-C35	<10.0	10.0	08/05/2014	ND					
Surrogate: 1-Chlorooctane	102 9	% 65.2-14	0						

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Fax To: (575) 396-1429

Received: 08/04/2014 Sampling Date: 07/31/2014

Reported: 08/12/2014 Sampling Type: Soil

Project Name: BASS 03 SWD Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

## Sample ID: SB-6 @ 105' (H402383-40)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/06/2014	ND	416	104	400	8.00	

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.



## **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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## ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

Company manie.	Dasiii Eliviioliilielital Service Lechnologies, LLC	nologie	S, LL	C	****		0	BILL TO					ANALYSIS REDITECT
Project Manager:	Ben Arguijo				9.	P.O. #:				7	$\forall$		- 1
Address: P.O. B	P.O. Box 301				ဂ	Company:	ny:	ВОРО	BOPCO, LP				
City: Lovington	State: NM	Zip:	Zip: 88260	260	Attn:	2		Tony Savoie	oie .				
Phone #: (575)3	(575)396-2378 <b>Fax #</b> : (575)396-1429	396-14	29		A	Address:	(S)	522 W Marland	arland				
Project #:	Project Owner:		BOF	BOPCO, LP	City	<u> </u>		Carlshad	•				
Project Name: E	Bass 03 SWD				2	State.	Z	715.	00000		M)	IB)	
Project Location:	Eddy Co., NM				D !			1	02200	ride	015	02	
Sampler Name: F	Sen I Arcuiio				1	THORE #.	7.	(432)556-8730	-8/30	lo	(80	(8	
1	bell J. Arguijo				Fax	Fax #:				Ch	н	EX	
FOR LAB USE ONLY				MATRIX		PRE	PRESERV.	SAMPLING	NG		TP	вт	
Lab I.D.	Sample I.D.	RAB OR (C)OMP.	CONTAINERS	ROUNDWATER ASTEWATER DIL L .UDGE	THER:	DID/BASE:	E/COOL HER:						
-	SB-1 @ 20'	$\overline{}$	_	×	$\rightarrow$	_	_	7/28/14	1430	×		1	
2	SB-1 @ 25'	ရ	>	×			×	7/28/14	1435	< >	<		
3	SB-1 @ 30'	ດ	_	×			×	7/28/14	1440	× ;	× >	<	
4	SB-2 @ 5'	ດ	_	×			×	7/29/14	0900	×	× ;	,	
·(s	SB-2 @ 10'	ര	-	×			×	7/29/14	0905	× ;	× :	<	
6	SB-2 @ 30'	G	_	×		_	×	7/29/14	0930	× :	>	>	
_	SB-2 @ 45'	၈		×			×	7/29/14	1000	× >	×	×	
8	SB-2 @ 60'	ര		×		×		7/29/14	1000	<	,	>	
Q	SB-2 @ 95'	ഒ	_	×			× ;	7/30/14	0020	< >			
10	D SB-3 (Background) @ Surface   G   1   X   X   7/30/14   1045   X	റ		×		×		7/30/14	1045	< >			

† Cardinal cannot accept verbal changes Please fax written changes to 575-393-2476

アン井

Sample Condition
Cool Intact
Pres Pres
No No

CHECKED BY

Please email results to Ben Arguijo, Tony Savoie, Jody Walters & Amy Ruth

Sampler - UPS - Bus - Other:

Revision 1.0

Delivered By: (Circle One)

Relinquished By:

Time: 1650

wed By:

ons, loss of use, or loss of profits incurred by client, its subsidiaries

Phone Result:
Fax Result:
REMARKS:

☐ Yes☐ Yes

O O

Add'l Phone #: Add'l Fax #:

Regeived By:

Time: Date: Relinquished By:

Page 32 of 35

## ARDINAL LABORATORIES

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

		1								C C C C C C C C C C C C C C C C C C C	-	
r o ject manager: pen Arguijo		7	P.O. #:				7			- 1		
Address: P.O. Box 301		0	Company:	ВОР	BOPCO, LP				_			
City: Lovington State: NM Zip:	: 88260		Attn:	Tony Savoie	oie							
Phone #: (575)396-2378 Fax #: (575)396-1429	129	A	Address:	522 W. Marland	Marland					_		
Project #: Project Owner:	BOF	BOPCO, LP C	City:	Carlsbad	۵.							
Project Name: Bass 03 SWD		S	State: NM	Zin:	00008	,	M)	1B)				
Project Location: Eddy Co., NM		,			00000	ide	15	02				
,		7	Fnone #:	(432)556-8730	-8730	or	80	(8				
Sampler Name: Ben J. Arguijo		T.	Fax #:			Chl	Н (	EX				
FOR LAB USE ONLY	H	MATRIX	PRESERV	/- SAMPLING	NG	-	TP	вт				
Lab I.D. Sample I.D.	ITAINERS INDWATER	EWATER GE	BASE:									
(G)RA	-		ACID/ ICE / C	DATE	TIME		v					
SB-3 (Background) @ 5' G	_	×	×	7/30/14	1050	×	×			+	#	
SB-3 (Background) @ 10' G	->	×	×	7/30/14	1055	×	×	×				
G	_	×	×	7/30/14	1100	×		-				
SB-3 (Background) @ 20' G	-	×	×	7/30/14	1105	×						
SB-3 (Background) @ 25' G	-	×	×	7/30/14	1110	×				+		
SB-3 (Background) @ 30' G	_	×	×	7/30/14	1115	×						
SB-4@5' G	-	×	×	7/30/14	1315	×	×			+		
SB-4 @ 10' G	_	×	×	7/30/14	1320	×	×	×		+		
SB-4 @ 25'	_	×	×	7/30/14	1335	×						
SB-4 @ 40' G 1	_	×	×	7/30/14	1355	×	×	×		+		
T-C-Doz rev ic: Leaung and Damages. Cardina's liability and client's Sectionius we ensety for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All clients including these for new for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	-											

† Cardinal cannot accept verbal changes! Please fax written changes to 575-393-2476

Relinquished By:

Sampler - UPS - Bus - Other:

5.70

Sample Condition
Cool Intact
Pes Yes
No No

CHECKED BY:

Please email results to Ben Arguijo, Tony Savoie, Jody Walters & Amy Ruth

Revision 1.0

Delivered By: (Circle One)

Time: Date:

Received By:

Received By:

loss of use, or loss of profits incurred by client, its subsidiaries

Phone Result:
Fax Result:
REMARKS:

☐ Yes☐ Yes

No No

Add'l Phone #: Add'l Fax #:

Relinquished By:

Page 33 of 35

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

Desirat Manager	Casiii Eilviioiiilieilai Selvice Lechnologies, LLC	lologi	8,	LLC				8/	BILL TO					ANALYSIS REQUEST	
an	Ben Arguijo				P	P.O. #:						٦			
Address: P.O. Box 301	ox 301				2	ğ	Company:		BOPCO, LP	O LP					
City: Lovington	State: NM	Zip:		88260	Attn:	Ξ.			Tony Savoie	Ď į					
Phone #: (575)39	(575)396-2378 <b>Fax #</b> : (575)396-1429	96-1	429		Ad	Address:	SS		522 W. Marland	arland					
Project #:	Project Owner:	ā	ВС	BOPCO, LP	City:	Κ.			Carlsbad						
Project Name: B	Bass 03 SWD				S	State	Z		5	0000	•	M)	1B)		
Project I ocation:	Eddy Co NIM				9	6			Lip.	02200	de	15	)21		
Project Location:	Eddy Co., NM				Ph	Phone #:	#		(432)556-8730	8730	orio	801	80		
Sampler Name: B	Ben J. Arguijo				Fa	Fax #:					hle	H (8	X (		
FOR LAB USE ONLY		┪	7	MATRIX	-	<b>司</b>	200		CAMPI		С	PH	TE		
		IP.				7	77.007.74	- 4	OMMITLING	ā		T	В		
Lab I.D.	Sample I.D.	G)RAB OR (C)OM	CONTAINERS	ROUNDWATER VASTEWATER OIL UL LUDGE	THER:	CID/BASE:	E / COOL	THER:							
21	SB-4 @ 60'	G	_			1	-	_(	7/30/14	1420	×		1		
22	SB-4 @ 70'	G	_	×			×	_	7/30/14	1435	×  :	×	-		
23	SB-4 @ 73'	G	_	×			×	_	7/30/14	1445	×	×  >	×		
24	SB-4 @ 95'	G	-	×			×	_	7/30/14	1520	× :	;	,		
22	SB-5 @ 5'	G	_	×			×	_	7/31/14	0900	×	×	_		
26	SB-5 @ 10'	G	_	×			×	-	7/31/14	0905	×	×	×		
27	SB-5 @ 25'	G	_	×			×	_	7/31/14	0920	× :	;	;		
200	SB-5 @ 40'	G	_	×			×	_	7/31/14	0940	×  :	×	×		
S.	SB-5 @ 60'	G	_	×			×	_	7/31/14	1005	×		- 1		
8	SB- 5 @ 65'	G	_	×			×	_	7/31/14	1015	×	×	+		
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Relinquished By:	Time: (657)	Re	Ceiv	Received By:	-	1	MANA	Q		Phone Result: Fax Result: REMARKS:		□ Yes	O No	o Add'l Phone #: o Add'l Fax #:	
elinguished By:	Date:	R	eiv	Received By:	2	2	É	6	(						
		1	•												_

Sample Condition
Cool Intact
Dayes Ares
No No

Please email results to Ben Arguijo, Tony Savoie, Jody Walters & Amy Ruth

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Time:

Revision 1.0

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

(0.0) 000 2020 100 (0.0)		
Company Name: Basin Environmental Service Technologies, LLC	BILL TO	ANALYSIS REQUEST
Project Manager: Ben Arguijo	P.O. #:	
Address: P.O. Box 301	Company: BOPCO, LP	
City: Lovington State: NM Zip: 88260	Attn: Tony Savoie	
Phone #: (575)396-2378 Fax #: (575)396-1429	ess:	
Project #: Project Owner: BOPCO, LP	City:	_
Project Name: Bass 03 SWD	State: NM Zip: 88220	5 <b>M</b> )
Project Location: Eddy Co., NM	Phone #: (432)556-8730	(802
Sampler Name: Ben J. Arguijo	Fax #:	H (
FOR LAB USE ONLY	MATRIX PRESERV. SAMPLING	TP
CAB OR (C)OMPONTAINERS DUNDWATER STEWATER	DDGE HER: D/BASE: / COOL	

Sampler Name: Be	Ben J. Arguijo				Fax #:	#			Chl	Н (	ΞX			
FOR LAB USE ONLY			_	MATRIX		PRESERV.	SAMPLING	VG.		TP	вт			
Lab I.D. H403383	Sample I.D.	(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER WASTEWATER SOIL	OIL SLUDGE OTHER :	ACID/BASE: CE / COOL OTHER :	DATE	TIME						
<u>G</u>	SB-5 @ 70'	G		×		×	7/31/14	1020	×	×	×	1	+	+
32	SB-5 @ 105'	G	_	×		×	7/31/14	1110	×					
33	SB-5 @ 125'	G	->	×		×	7/31/14	1130	×					
Z.	SB-6 @ 5'	G	_	×		×	7/31/14	1400	×	×				
35	SB-6 @ 10'	G	_	×		×	7/31/14	1405	×	×	×			
38	SB-6 @ 20'	G		×		×	7/31/14	1415	×					
57	SB-6 @ 40'	G	-	×		×	7/31/14	1440	×	×	×			
38	SB-6 @ 60'	G	_	×		×	7/31/14	1505	×	×				
29	SB-6 @ 65'	G		×		×	7/31/14	1510	×	×	×			+
OH CH	SB-6 @ 105'	SB-6 @ 105' G 1 X X 7/31/14 1540	_	×		×	7/31/14	1540	×					

Relinquished By: Refinguished By: analyses. All claims including those for negligence and any other service. In no event shall Cardinal be liable for incidental or cons Date: Time: Received By: ed unless made in writing and received by Cardinal within 30 days after completion of the applicable ns, loss of use, or loss of profits incurred by client, its subsidiaries Phone Result: Fax Result: REMARKS: □ Yes

O No

Add'l Phone #: Add'l Fax #:

100	Sample Condition Cool Intact GYes 7 Yes No No	
	CHECKED BY:	
		Please email results to Ben Arguijo, Tony Savoie, Jody Walters & Amy Ruth

Sampler - UPS - Bus - Other:

Revision 1.0

Delivered By: (Circle One)

Time:

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



September 08, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BASS 03 SWD

Enclosed are the results of analyses for samples received by the laboratory on 08/29/14 14:15.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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



Basin Environmental Service JOEL LOWRY

P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/29/2014 Sampling Date: 08/27/2014

Reported: 09/08/2014 Sampling Type: Soil Project Name: BASS 03 SWD

EDDY COUNTY, NM

Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Sample ID: HSP-1B (H402681-01)

Project Location:

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/04/2014	ND	416	104	400	3.92	

## Sample ID: HSP-2B (H402681-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/04/2014	ND	416	104	400	3.92	

## Sample ID: HSP-3B (H402681-03)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/04/2014	ND	416	104	400	3.92	

## Sample ID: HSP-4C (H402681-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/04/2014	ND	416	104	400	3.92	

Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/29/2014 Sampling Date: 08/27/2014 Reported: Sampling Type: Soil

09/08/2014 Project Name: BASS 03 SWD Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	09/04/2014	ND	416	104	400	3.92	
Sample ID: HSP-6C (H40	2681-06)								
Sample ID: HSP-6C (H40 Chloride, SM4500CI-B	=	/kg	Analyze	d By: AP					
	=	/kg Reporting Limit	<b>Analyze</b> Analyzed	ed By: AP  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

## Sample ID: HSP-7C (H402681-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/04/2014	ND	416	104	400	3 92	

## Sample ID: HSP-8B (H402681-08)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/04/2014	ND	416	104	400	3.92	

## Sample ID: HSP-9D (H402681-09)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/04/2014	ND	416	104	400	3.92	

## Cardinal Laboratories \*=Accredited Analyte

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Basin Environmental Service JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 08/29/2014 Sampling Date: 08/27/2014

Reported: 09/08/2014 Sampling Type: Soil

Project Name: BASS 03 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

## Sample ID: HSP-10 (H402681-10)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	09/04/2014	ND	400	100	400	0.00	
Sample ID: HSP-11R (H4(	n2681-11\								

## Sample ID: HSP-11B (H402681-11)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/04/2014	ND	400	100	400	0.00	

## Sample ID: HSP-12B (H402681-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/04/2014	ND	400	100	400	0.00	

## Sample ID: HSP-13C (H402681-13)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/04/2014	ND	400	100	400	0.00	

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



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

Company Name:	Basin Environmental Service Technologies, LLC	e Technologies	s, LLC	9	BILL TO					AN	ANALYSIS	REQUEST	
Project Manager:	Joel Lowry			P.O. #:				4	4	+			
Address: P.O. B	P.O. Box 301			Company:	BOPCO, LP	O, LP				_			
City: Lovington	State: NM		Zip: 88260	Attn:	Tony Savoie	œ.							
Phone #: (575)3	(575)396-2378 Fax #:	Fax #: (575)396-1429	9	Address:	522 W. Marland	ırland							
Project #:	Project	Project Owner:		City:	Carlsbad				_	Н		F.	
Project Name: E	Bass 03 SWD (Palmilo)			State: NM	Zip: 8	88220	е	_^		TP			
Project Location:	Eddy Co., NM			Phone #:	2)556	8730	orid	301	(802	OR			
Sampler Name: •	SOEL lower			Fax #:			Chle	- 0		D F			
FOR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING	G	(			IOL			
Lab I.D. իԿ0%%]	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :	DATE	TIME							
_	HSP-1B	9 1	×	×	8/27/14	1000	×	4	4	+		+	
2	HSP-2B	9	×	×	8/27/14	1010	×	4	+	+			+
W	HSP-3B	9 1	×	×	8/27/14	1020	×	4	+	+			
ţ	HSP-4C	9 1	×	×	8/27/14	1030	×	4	$\dashv$	-			
(5)	HSP-5C	9 1	×	×	8/27/14	1040	×	_	-	+			
6	HSP-6C	9 1	×	×	8/27/14	1050	×	4	+	+	^		
7	HSP-7C	9 1	×	×	8/27/14	1100	×	4	+		1		
ol ol	HSP-8B	9 1	×	×	8/27/14	1110	×	4	+	-		-	+
2	HSP-9D	9 1	×	×	8/27/14	1120	×	$\dashv$	+			+	+
01	HSP-10	g 1	×	×	8/27/14	1130	×	+	+	+	1	-	+

(I) Cardinal gappot accept verbal changes. Please fax written changes to 575-393-2476 424

5.80 Cool Intact

Sample Condition

CHECKED BY

Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com

HOLD FOR TPH

Relinquished By:

202

Time: Date:

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes☐ Yes

O O

Add'l Phone #: Add'l Fax #:

Sampler - UPS - Bus - Other:

Revision 1.0 FORM-006 Delivered By: (Circle One)

Times Date: Relinquished By:

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

Company Name: ba	Basin Environmental Service Technologies, LLC	nnolog	ies,	LLC			8	BILL TO						ANA	ANALYSIS	REQUEST	ST				_
Project Manager: Joe	Joel Lowry				P.O.	9,#							٦	٦	٦	 7	$\dashv$	$\dashv$	$\dashv$	$\dashv$	
Address: P.O. Box 301					ဂ္ဂ	ğ	Company:	BOPCO, LP	0, LP										_		
City: Lovington	State: NM	Zip:	8	Zip: 88260	At	Attn:		Tony Savoie	Ф												_
Phone #: (575)396-2378	78 Fax #: (575)396-1429	396-14	129		Ad	Address:	SS:	522 W. Marland	rland												
Project #:	Project Owner:	er:			City:	?		Carlsbad				)	н								
Project Name: Bass 0	Bass 03 SWD (Palmilo)				St	State:	Z	Zip: 8	88220	le	5M)	21B)	TP								
Project Location: Edu	Eddy Co., NM				Ph	Phone #:	#	2)556	3730	orid	801	(802	OR					_			_
Sampler Name: ラの6	DOEC lowey				Fa	Fax #:				Chl	Н (	EX	D F					_	_		_
FOR LAB USE ONLY		P		MATRIX		PR	PRESERV.	SAMPLING	G		TP	вт	HOL					_			_
Lab I.D. H402651	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER:	ACID/BASE:	ICE / COOL OTHER :	DATE	TIME				H								
=	HSP-11B	9	1	×			×	8/27/14	1140	×						7	7	$\forall$	$\dashv$	+	
12	HSP-12B	9	1	×			×	8/27/14	1150	×							T	$\forall$	+	$\dashv$	
3	HSP-13C	9	_	×			×	8/27/14	1200	×						П	Ħ	Н	$\vdash$	H	Ш
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alyses. All claims including those for neg	ral/see. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable.	ny claim ar deemed wa	sived u	whether based in contract or unless made in writing and r	rort, si	hall be	limited to t ardinal with	he amount paid by in 30 days after con	he client for the a pletion of the a	policable											

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Sample Condition
Cool Intact
Pers Ares
No No

CHECKED BY:

Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com

HOLD FOR TPH

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Date: 6 75
Time: 2:13
Date: 8/29/14

ved By:

Phone Result: Fax Result: REMARKS:

☐ Yes

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Add'l Phone #: Add'l Fax #:

FORM-006 Revision 1.0 Relinquished By:

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Page 7 of 7