

BOPCO, L.P.

522 W. Mermod, Suite 704
Carlsbad, NM 88220

Office: (575)887-7329
Fax: (575)887-7473

Wednesday, April 15, 2015

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, T19S, 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.

BOPCO, L.P. (BOPCO) retained Merryman Construction (Merryman) 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, Merryman 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.

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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.

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.

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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.

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

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

Conclusion

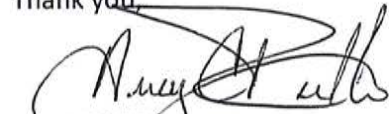
Per NMOCD instructions, BOPCO submitted an initial form C-141 documenting the historical impacts at the site (NMOCD Initial Form C-141 - Attached). Depth to groundwater in the area has been indicated at approximately 165 feet by a ground water contour/extrapolation map maintained by the NMOCD. No other 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
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-10442
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other SWD		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator BOPCO, L.P.		6. State Oil & Gas Lease No.
3. Address of Operator 522 W. Mermod, Suite 704, Carlsbad, NM 88220		7. Lease Name or Unit Agreement Name Bass 003 SWD
4. Well Location Unit Letter <u>F</u> : <u>2310</u> feet from the <u>North</u> line and <u>1650</u> feet from the <u>West</u> line Section <u>12</u> Township <u>19S</u> Range <u>28E</u> NMPM County <u>Eddy</u>		8. Well Number
		9. OGRID Number
		10. Pool name or Wildcat
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☒ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Following the P&A of the well, soil samples were collected from the well pad by use of a backhoe and environmental drill rig in June and July 2014. The soil bores were plugged with bentonite and the samples were sent to a commercial laboratory for analyses. Soils from the surface of the well pad to depths of 6 inches to 2 feet that were impacted by chloride and hydrocarbons were removed to a NMOCD approved disposal facility. A 20 mil polyethylene liner was installed in the excavation floor and the excavation was backfilled with clean imported topsoil. The site was contoured for water erosion prevention along the slope and will be re-seeded.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

TITLE Asst. Remediation Foreman

DATE 6-23-15

Type or print name Amy C. Ruth

E-mail address: ACRuth@basspet.com

PHONE: 432-661-0571

For State Use Only

APPROVED BY:

TITLE

DATE

Conditions of Approval (if any):

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

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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141

Revised August 8, 2011

JAN 26 2015

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

RECEIVED

Release Notification and Corrective Action

NAB1503036865 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P. <u>3100737</u>	Contact: Tony Savoie
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: Bass #003W	Facility Type: SWD

Surface Owner: State	Mineral Owner: State	API No. 30-015-10442
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	12	19S	28E	2310	North	1650	West	Eddy

Latitude N 32.676043 Longitude W 104.133229

NATURE OF RELEASE

Type of Release: Production Fluids	Volume of Release: Unknown	Volume Recovered: Unknown
Source of Release: Production and SWD operations (Historical Spills)	Date and Hour of Occurrence: Date and time Unknown	Date and Hour of Discovery: 6/24/14 during final reclamation.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* The well was P&A on 2/18/14, a crew started the final reclamation on 6/24/14 after the tanks and equipment had been removed. Heavily impacted soil was discovered around the production tanks and surrounding area.		
Describe Area Affected and Cleanup Action Taken.* The total affected area measured approximately 40,000 sq.ft. The investigation began with test trenches and finally ended up with the advancement of 5 soil bores across the impacted area. The sample results and final closure data will be presented with the Final C-141. The final reclamation was discussed with Mike Bratcher and given the spill report #2RP-2724.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

Signature: <u>Tony Savoie</u>		OIL CONSERVATION DIVISION	
Printed Name: Tony Savoie		Signed By: <u>[Signature]</u> Approved by Environmental Specialist	
Title: Waste Management and Remediation Specialist		Approval Date: <u>1/28/15</u>	Expiration Date: <u>N/A</u>
E-mail Address: <u>tasavoie@basspet.com</u>		Conditions of Approval: Remediation per O.C.D. Rules & Guidelines SUBMIT REMEDIATION PROPOSAL NO LATER THAN: <u>2/28/15</u>	
Date: <u>1/26/15</u> Phone: 432-556-8730		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

PAB1503036331

2RP-2724

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

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: BOPCO, L.P.	Contact: Amy C. Ruth
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: Bass #003W	Facility Type: SWD

Surface Owner: State	Mineral Owner: State	API No. 30-015-10442
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LOCATION OF RELEASE

Unit Letter F	Section 12	Township 19S	Range 28E	Feet from the 2310	North/South Line North	Feet from the 1650	East/West Line West	County Eddy
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Latitude N 32.676043 Longitude W -104.133229

NATURE OF RELEASE

Type of Release Production Fluids	Volume of Release Unknown	Volume Recovered Unknown
Source of Release	Date and Hour of Occurrence Date and Time Unknown	Date and Hour of Discovery 6/24/14 During final reclamation
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

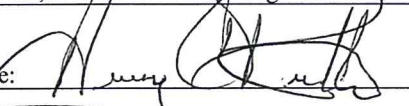
Describe Cause of Problem and Remedial Action Taken.*

The well was P&A on 2/18/14. A crew started the final reclamation on 6/24/14 after the tanks and equipment had been removed. Heavily impacted soil was discovered around the production tanks and surrounding area.

Describe Area Affected and Cleanup Action Taken.*

The total affected area measured approximately 40,000 sq.ft. The investigation began with test trenches and finally ended up with the advancement of 5 soil bores across the impacted area. The final reclamation was discussed with Mike Bratcher and given the spill report #2RP-2724. Per NMOCD approval, the site was excavated to 6 inches north of the former well marker. South of the former well marker, the site was excavated to 2 ft. bgs, lined with 20 mil plastic and backfilled. The site was contoured to surrounding landscape and re-seeded.

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

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Amy C. Ruth		Approved by Environmental Specialist:	
Title: Assistant Remediation Foreman		Approval Date:	Expiration Date:
E-mail Address: acruth@basspet.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>6-23-15</u> Phone: 432-661-0571			

* 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)

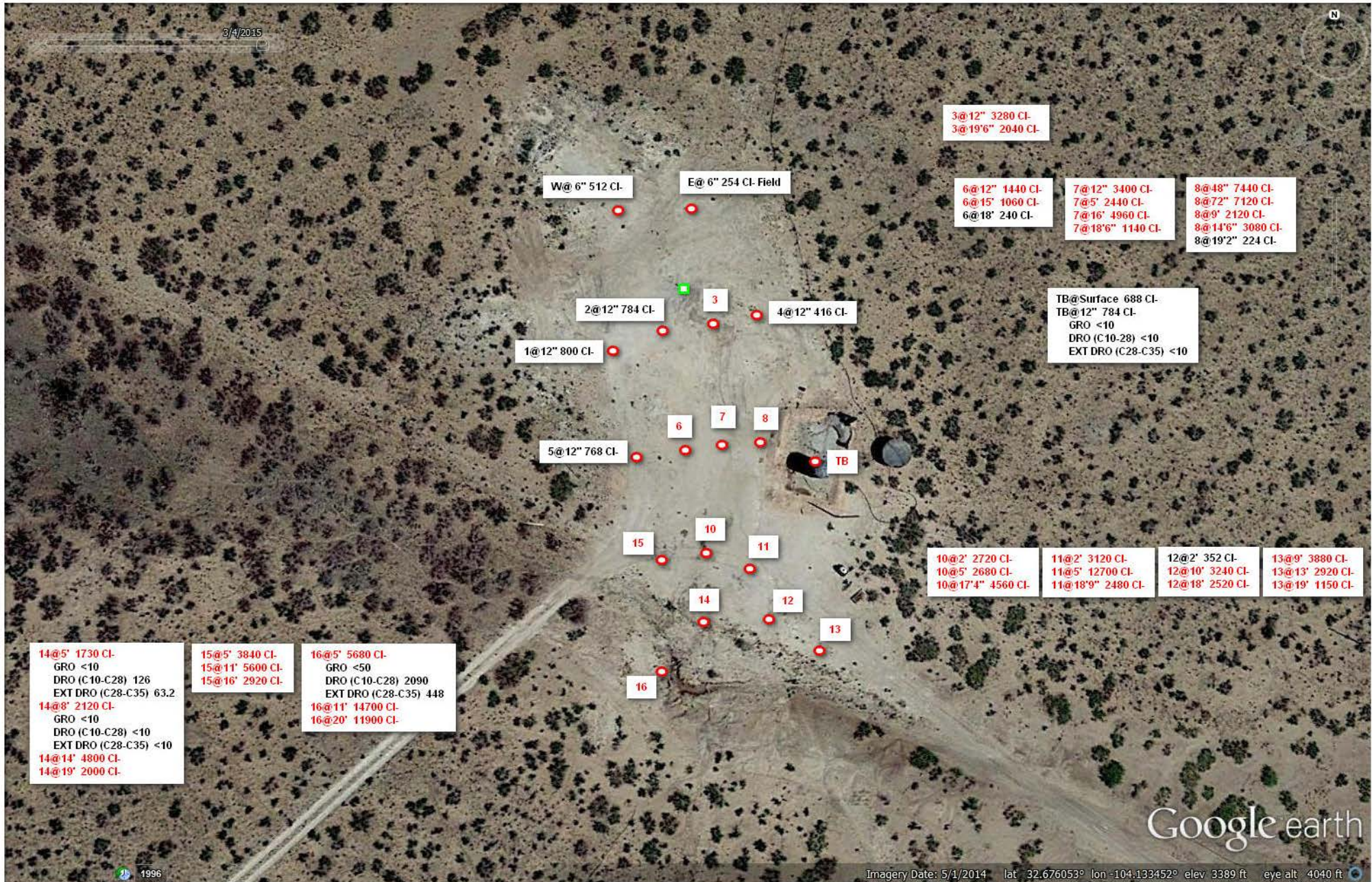


FIGURE 2: Bass 03 SWD Final Reclamation
Unit Letter F, Section 12, Township 19S, Range 28E

Soil Bore Installation (July 28-31, 2014)

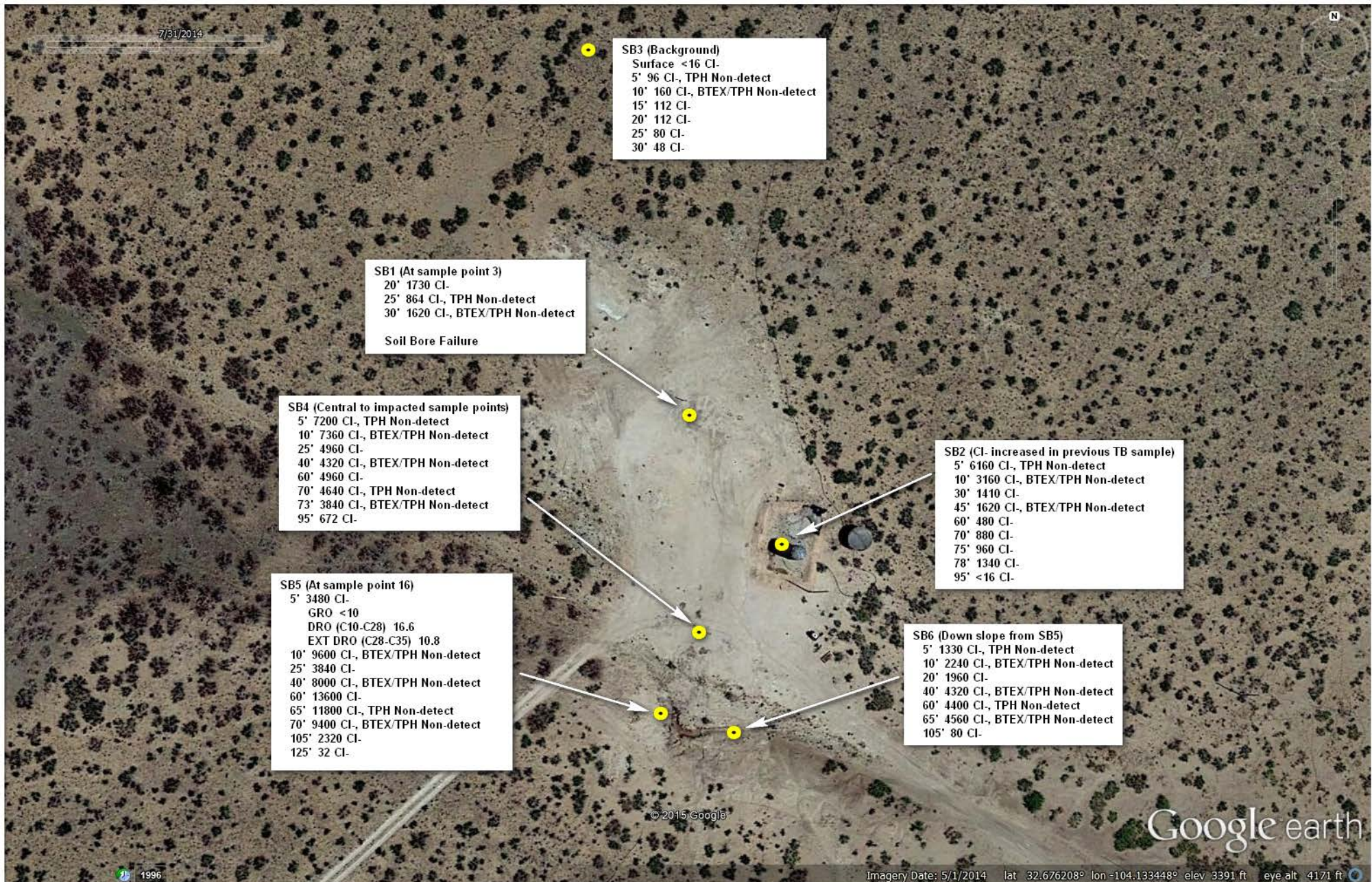


FIGURE 3: Bass 03 SWD Final Reclamation
Unit Letter F, Section 12, Township 19S, Range 28E

Lateral Delineation (August 27, 2014)

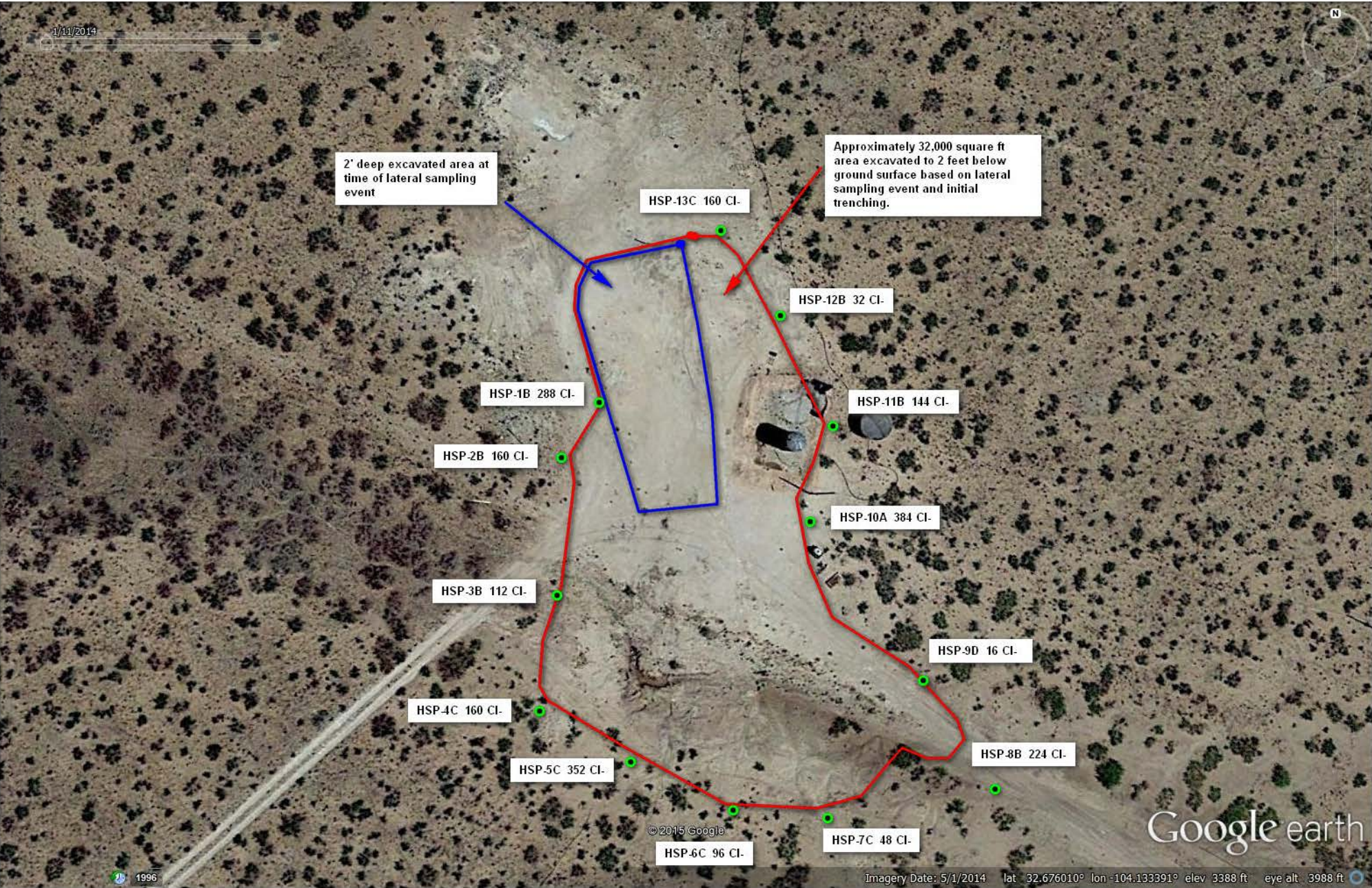


Photo Documentation
Bass 03 SWD Final Reclamation
Unit Letter F, Section 12, T19S, R28E



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 SB3 (background), from N of pad facing S 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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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		Analyzed 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		Analyzed 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		Analyzed 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, SM4500Cl-B		mg/kg		Analyzed 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

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Bass Enterprises
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		Analyzed 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" (H401909-06)

Chloride, SM4500CI-B		mg/kg		Analyzed 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" (H401909-07)

Chloride, SM4500CI-B		mg/kg		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" (H401909-08)

Chloride, SM4500CI-B		mg/kg		Analyzed 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" (H401909-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 %	65.2-140							
Surrogate: 1-Chlorooctadecane	111 %	63.6-154							

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

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 %	65.2-140							
Surrogate: 1-Chlorooctadecane	110 %	63.6-154							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Bpco, L.P.</u>		BILL TO		ANALYSIS REQUEST																						
Project Manager: <u>TONY SAVOIE</u>		P.O. #:																								
Address:		Company: <u>Bpco</u>																								
City:		Attn: <u>TONY SAVOIE</u>																								
State:		Address:																								
Zip:		City:																								
Phone #:		State:																								
Fax #:		Zip:																								
Project #:		Project Owner:																								
Project Name: <u>Pattern #3 Bassa/Williams Sub#3</u>		State:																								
Project Location: <u>N/E of Carlsbad, NM, Eddy Co</u>		Phone #:																								
Sample Name: <u>Don Dean</u>		Fax #:																								
FOR LAB USE ONLY		PRESERV		SAMPLING																						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CL	TPH										
<u>HDP001</u>	<u>#1 @ 12"</u>	<u>G</u>	<u>1</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>6/24/14</u>	<u>12:00</u>	<u>✓</u>	<u>✓</u>										
<u>2</u>	<u>#2 @ 12"</u>	<u>G</u>	<u>1</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>11</u>	<u>12:00</u>	<u>✓</u>	<u>✓</u>										
<u>3</u>	<u>#3 @ 12"</u>	<u>G</u>	<u>1</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>11</u>	<u>12:00</u>	<u>✓</u>	<u>✓</u>										
<u>4</u>	<u>#4 @ 12"</u>	<u>G</u>	<u>1</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>11</u>	<u>12:00</u>	<u>✓</u>	<u>✓</u>										
<u>5</u>	<u>#5 @ 12"</u>	<u>G</u>	<u>1</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>11</u>	<u>1:00</u>	<u>✓</u>	<u>✓</u>										
<u>6</u>	<u>#6 @ 12"</u>	<u>G</u>	<u>1</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>11</u>	<u>1:00</u>	<u>✓</u>	<u>✓</u>										
<u>7</u>	<u>#7 @ 12"</u>	<u>G</u>	<u>1</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>11</u>	<u>1:00</u>	<u>✓</u>	<u>✓</u>										
<u>8</u>	<u>#8 @ 48"</u>	<u>G</u>	<u>1</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>11</u>	<u>1:00</u>	<u>✓</u>	<u>✓</u>										
<u>9</u>	<u>#9 @ 72"</u>	<u>G</u>	<u>1</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>11</u>	<u>1:00</u>	<u>✓</u>	<u>✓</u>										
<u>10</u>	<u>#10 @ SURFACE</u>	<u>G</u>	<u>1</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>11</u>	<u>1:00</u>	<u>✓</u>	<u>✓</u>										
<p>PLEASE NOTE: Liability is limited to the extent of the contract or bill. Small amounts of the amount paid by the client are not refundable. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																										
Relinquished By: <u>Don Dean</u>		Date: <u>6-25-14</u>		Time: <u>7:51</u>		Received By: <u>Bill Heene</u>		Date: <u>6-25-14</u>		Time: <u>7:51</u>		REMARKS: <u>Any revised project name. 6/24/14</u>														
Delivered By: (Circle One)		Sample Condition		Checked By: (Initials)																						
Sampler - UPS - Bus - Other: <u>5.2C</u>		<input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																						

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Bass Enterprises
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, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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	16.0	07/01/2014	ND	416	104	400	0.00		

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

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Bopco, LP</u>		P.O. #:	
Project Manager: <u>Tony Savoie</u>		Company: <u>Bopco, LP</u>	
Address:		Attn: <u>Tony Savoie</u>	
City:		Address:	
State:		City:	
Zip:		State:	
Phone #:		Zip:	
Fax #:		Phone #:	
Project #:		Fax #:	
Project Name: <u>BOPCO'S BRASS PALMILLO #3 SWD</u>			
Project Location: <u>NE of CARLSBAD, N.M.</u>			
Sampler Name: <u>Don Sheen</u>			

FOR LAB USE ONLY																										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
H401975	#8 @ 9'	G	1			✓					✓		6/30/14	11:00	✓	CL										
	#8 @ 14' 6"	G	1			✓					✓		11:30	✓	PUSTH											
	#8 @ 19' 2"	G	1			✓					✓		12:00	✓												
	#7 @ 5'	G	1			✓					✓		11	✓												
	#7 @ 16'	G	1			✓					✓		11	✓												
	#7 @ 18' 6"	G	1			✓					✓		11	✓												
													</													

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 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>Don Sheen</u>	Date: <u>7-1-14</u>	Received By: <u>Joel Henderson</u>	Time: <u>8:11</u>
Relinquished By:	Date:	Received By:	Time:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes No	CHECKED BY: <u>(initials)</u>	
Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: _____	Add'l Fax #: _____
REMARKS:			

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



Page 4 of 4

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

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Bass Enterprises
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		Analyzed 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, SM4500CI-B		mg/kg		Analyzed 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, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Bapco, L.P.</u>		P.O. #:		BILL TO												ANALYSIS REQUEST																									
Project Manager: <u>Tony Swais</u>		Company: <u>Bapco</u>																																							
Address:		Attn: <u>Tony Swais</u>																																							
City:		Address:																																							
State:		City:																																							
Zip:		State:																																							
Phone #:		Fax #:																																							
Project #:		Project Owner:																																							
Project Name: <u>BASS PALMILLO #3 SWD</u>		State:																																							
Project Location: <u>N/E of Carlsbad, N.M.</u>		Zip:																																							
Sample Name: <u>Don Green</u>		Phone #:																																							
Fax #:																																									
FOR LAB USE ONLY																																									
Lab I.D.		Sample I.D.																																							
H402041																																									
1 #10 @ 2'		C		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
2 #10 @ 5'		C				1																				7/3/14		10:30													
3 #10 @ 17' 4"		C				1																						11:00													
4 #10 @ 2'		C				1																						11:45													
5 #10 @ 5'		C				1																						12:45													
6 #10 @ 18' 9"		C				1																						1:15													
																												2:30													
Relinquished By: <u>Don Green</u>		Date: <u>7-3-14</u>		Time: <u>4:42</u>		Received By: <u>Shadi Shurson</u>		Date: <u>7-3-14</u>		Time: <u>4:42</u>		Sample Condition: <u>4.80</u>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		CHECKED BY: <u>Shadi Shurson</u>																									
Delivered By: (Circle One)		Sampler - UPS - Bus - Other:																																							
Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326																																									



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Bass Enterprises
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		Analyzed 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, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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, SM4500Cl-B		mg/kg		Analyzed 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	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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: #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
Chloride	2920	16.0	07/08/2014	ND	416	104	400	0.00	

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

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

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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***	Insufficient time to reach temperature.
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Bopco, LP</u>		P.O. #:	
Project Manager: <u>Tony Stravis</u>		Company: <u>Bopco, LP</u>	
Address:		Attn: <u>Tony Stravis</u>	
City:		Address:	
State:		City:	
Zip:		State:	
Phone #:		Zip:	
Fax #:		Phone #:	
Project #:		Fax #:	
Project Name: <u>Bass Palm Hills SWD #3</u>			
Project Location: <u>N/E of Carlsbad, NM.</u>			
Sampler Name: <u>Don Steer</u>			

FOR LAB USE ONLY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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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 analysis. 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>Don Steer</u>	Date: <u>7-8-14</u>	Received By: <u>Don Steer</u>	Date: <u>8:00</u>	Time: <u>8:00</u>	Sample Condition: <u>Cool / Intact</u>	CHECKED BY: <u>[Signature]</u>
Delivered By: (Circle One)	3.80c	Cool / Intact	Yes	No	Yes	No
Sampler - UPS - Bus - Other:						

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS: dwgrea@valornet.com

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 #41



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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		Analyzed 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		Analyzed 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 %	65.2-140								
Surrogate: 1-Chlorooctadecane	170 %	63.6-154								

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

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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	16.0	07/14/2014	ND	400	100	400	3.92	

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

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

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	16.0	07/14/2014	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
BEN J. ARGUIJO
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 07/29/2014
Reported: 08/06/2014
Project Name: BASS 03 SWD
Project Number: [none]
Project Location: EDDY COUNTY, NM

Sampling Date: 07/29/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Kathy Perez

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

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

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

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.9 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
BEN J. ARGUIJO
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 07/29/2014
Reported: 08/06/2014
Project Name: BASS 03 SWD
Project Number: [none]
Project Location: EDDY COUNTY, NM

Sampling Date: 07/29/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Kathy Perez

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

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	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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	07/29/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 81.4 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Basin Environmental</u>		P.O. #:		BILL TO											
Project Manager: <u>Ben Aguayo</u>		Company: <u>BOECO, LP</u>		ANALYSIS REQUEST											
Address: <u>3100 N. Hwy.</u>		Attn: <u>T. Savio</u>													
City: <u>Livingston</u>		Address:													
Phone #: <u>(575) 396-2378</u>		City:													
Fax #: <u></u>		State: <u>NM</u>													
Project #: <u></u>		Zip: <u>88400, LP</u>													
Project Name: <u>Basin 03 SWP</u>		State: <u></u>													
Project Location: <u>Elly Co, NM</u>		Phone #: <u></u>													
Sampler Name: <u>Ben Aguayo</u>		Fax #: <u></u>													
FOR LAB USE ONLY															
Lab I.D. <u>H402319</u>		(G)RAB OR (C)OMP		MATRIX		PRESERV		SAMPLING							
Sample I.D. <u></u>		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE			
<u>1</u>		<u>1</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>			
<u>2</u>		<u>1</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>			
<u>3</u>		<u>1</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>			
<u>SB-2070</u>		<u>1</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>			
<u>SB-2075</u>		<u>1</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>			
<u>SB-2078</u>		<u>1</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>			
DATE		TIME		DATE		TIME		DATE		TIME		DATE			
<u>7/29/14</u>		<u>11:55</u>		<u>7/29/14</u>		<u>11:55</u>		<u>7/29/14</u>		<u>11:55</u>		<u>7/29/14</u>			
<u>11:30</u>		<u>11:30</u>		<u>11:30</u>		<u>11:30</u>		<u>11:30</u>		<u>11:30</u>		<u>11:30</u>			
REMARKS:		Chloride TPH > added 8/14 BTEX													
Relinquished By: <u>[Signature]</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: <u></u>													
Time: <u>7/29/14</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: <u></u>													
Date: <u>7/29/14</u>		REMARKS: <u>PMSTH</u> <u>Hold for TPH/BTEX</u>													
Time: <u>1415</u>															
Received By: <u>[Signature]</u>															
Delivered By: (Circle One)		Sample Condition		CHECKED BY:											
Sampler - UPS - Bus - Other: <u>32.0' HSC</u>		Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		(Initials) <u>KP</u>											

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

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

Chloride, SM4500Cl-B		mg/kg	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	<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 83.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.6 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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
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 @ 30' (H402383-03)

BTX 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 BTX	<0.300	0.300	08/05/2014	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	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	<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 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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

Sampling Date: 07/29/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

Chloride, SM4500Cl-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		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	<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 %	65.2-140							
Surrogate: 1-Chlorooctadecane	91.4 %	63.6-154							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Sampling Date: 07/29/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

BTX 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 BTX	<0.300	0.300	08/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	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	<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 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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

Sampling Date: 07/29/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB-2 @ 30' (H402383-06)**Chloride, SM4500Cl-B****mg/kg****Analyzed 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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Received: 08/04/2014
Reported: 08/12/2014
Project Name: BASS 03 SWD
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 07/29/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.7 % 63.6-154

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Received: 08/04/2014
Reported: 08/12/2014
Project Name: BASS 03 SWD
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 07/29/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

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
Chloride	<16.0	16.0	08/07/2014	ND	400	100	400	0.00	

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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-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		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	<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 %	65.2-140							
Surrogate: 1-Chlorooctadecane	87.4 %	63.6-154							

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Received: 08/04/2014
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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-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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	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	<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 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.1 % 63.6-154

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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-3 (BACKGROUND) @ 15' (H402383-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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		Analyzed 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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 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 @ 5' (H402383-17)

Chloride, SM4500Cl-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		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	<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 %	65.2-140							
Surrogate: 1-Chlorooctadecane	92.7 %	63.6-154							

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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		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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	<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 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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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 @ 25' (H402383-19)**Chloride, SM4500Cl-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
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 @ 40' (H402383-20)

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) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	<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 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.8 % 63.6-154

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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 @ 60' (H402383-21)

Chloride, SM4500Cl-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	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	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	<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 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.1 % 63.6-154

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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
 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 @ 73' (H402383-23)

BTX 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 BTX	<0.300	0.300	08/05/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

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	

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	<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 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.2 % 63.6-154

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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 @ 95' (H402383-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.2 % 63.6-154

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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 @ 10' (H402383-26)

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	08/06/2014	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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	<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 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.8 % 63.6-154

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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 @ 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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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 @ 40' (H402383-28)

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	08/06/2014	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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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 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 @ 60' (H402383-29)

Chloride, SM4500Cl-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		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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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		Analyzed 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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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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: 07/31/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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 97.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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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-6 @ 10' (H402383-35)

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	08/06/2014	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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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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-6 @ 20' (H402383-36)**Chloride, SM4500Cl-B****mg/kg****Analyzed 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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Celey D. Keene, Lab Director/Quality Manager

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
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-6 @ 40' (H402383-37)

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	08/06/2014	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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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 95.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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
 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-6 @ 60' (H402383-38)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	104 %	65.2-140							
Surrogate: 1-Chlorooctadecane	110 %	63.6-154							

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Celey D. Keene, Lab Director/Quality Manager

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
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-6 @ 65' (H402383-39)

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	08/06/2014	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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	08/06/2014	ND	416	104	400	8.00		

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 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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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-6 @ 105' (H402383-40)

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	08/06/2014	ND	416	104	400	8.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Page 34 of 35

ORDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Basin Environmental Service Technologies, LLC						BILL TO						ANALYSIS REQUEST																																																																																			
Project Manager: Ben Argujio						P.O. #:																																																																																									
Address: P.O. Box 301						Company: BOPCO, LP																																																																																									
City: Lovington						Attn: Tony Savoie																																																																																									
State: NM Zip: 88260						Address: 522 W. Marland																																																																																									
Phone #: (575)396-2378						City: Carlsbad																																																																																									
Project #: Project Owner: BOPCO, LP						State: NM Zip: 88220																																																																																									
Project Location: Eddy Co., NM						Phone #: (432)556-8730																																																																																									
Sample Name: Ben J. Argujio						Fax #:																																																																																									
FOR LAB USE ONLY																																																																																															
Lab I.D.						Sample I.D.																																																																																									
H402383						(G)RAB OR (C)OMP.																																																																																									
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						OTHER :																																																																																									
						ACID/BASE:																																																																																									
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SB-5 @ 70'						G 1						X						1020						X						X						X																																																											
SB-5 @ 105'						G 1						X						7/31/14						1110						X																																																																	
SB-5 @ 125'						G 1						X						7/31/14						1130						X																																																																	
SB-6 @ 5'						G 1						X						7/31/14						1400						X						X																																																											
SB-6 @ 10'						G 1						X						7/31/14						1405						X						X																																																											
SB-6 @ 20'						G 1						X						7/31/14						1415						X																																																																	
SB-6 @ 40'						G 1						X						7/31/14						1440						X						X																																																											
SB-6 @ 60'						G 1						X						7/31/14						1505						X						X																																																											
SB-6 @ 65'						G 1						X						7/31/14						1510						X						X																																																											
SB-6 @ 105'						G 1						X						7/31/14						1540						X																																																																	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's Section 19 remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.												REMARKS:																																																																																			
Relinquished By: [Signature]												Date: 8/1/14												Received By: [Signature]												Time: 1050												Date: [Blank]												Time: [Blank]												Phone Result: Yes No Add'l Phone #: [Blank]												Fax Result: Yes No Add'l Fax #: [Blank]											
Delivered By: (Circle One)												Sample Condition Cool Intact Yes No												CHECKED BY: (Initials) [Signature]												Please email results to Ben Argujio, Tony Savoie, Jody Walters & Amy Ruth																																																											

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

 Received: 08/29/2014
 Reported: 09/08/2014
 Project Name: BASS 03 SWD
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 08/27/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

Chloride, SM4500Cl-B		mg/kg		Analyzed 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, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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, SM4500Cl-B		mg/kg		Analyzed 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	

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Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

 Received: 08/29/2014
 Reported: 09/08/2014
 Project Name: BASS 03 SWD
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 08/27/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: HSP-5C (H402681-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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 (H402681-06)

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	09/04/2014	ND	416	104	400	3.92	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/04/2014	ND	416	104	400	3.92	

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

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

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 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

 Received: 08/29/2014
 Reported: 09/08/2014
 Project Name: BASS 03 SWD
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 08/27/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: HSP-10 (H402681-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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-11B (H402681-11)

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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, SM4500Cl-B		mg/kg		Analyzed 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	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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