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REMEDIATION SUMMARY & SITE CLOSURE REQUEST

**BOPCO, LP
JAMES RANCH UNIT #36 TANK BATTERY
Eddy County, New Mexico
Unit Letter "G" (SW/NE), Section 1, Township 23 South, Range 30 East
Latitude 32.335615° North, Longitude 103.832117° West
NMOCD Reference #: 2RP-1204**

Prepared For:

BOPCO, LP
522 W. Mermod, Suite 704
Carlsbad, New Mexico 88220

Prepared By:

Basin Environmental Service Technologies, LLC
3100 Plains Highway
Lovington, New Mexico 88260



December 2013

A handwritten signature in black ink, appearing to read "Ben J. Arguijo".

Ben J. Arguijo
Project Manager

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1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin Environmental), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary & Site Closure Request* for the release site known as James Ranch Unit #36 Tank Battery. The legal description of the release site is Unit Letter "G" (SW/NE), Section 1, Township 23 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.335615° North latitude and 103.832117° West longitude. The property affected by the release is owned by the United States Department of the Interior - Bureau of Land Management (BLM). Please reference Figure 1 for a "Site Location Map".

On June 24, 2012, BOPCO discovered a release had occurred at the James Ranch Unit #36 Tank Battery. A series of mechanical, electrical, and calibration failures involving the primary and secondary water pumps and the high level alarm resulted in a storage tank overflow. The release was immediately reported to the New Mexico Oil Conservation Division (NMOCD) Artesia District Office. The "Release Notification and Corrective Action" (Form C-141) indicated approximately four hundred and fifty barrels (450 bbls) of produced water and approximately five barrels (5 bbls) of crude oil were released. During initial response activities, the mechanical, electrical, and calibration failures were corrected, and a vacuum truck was utilized to recover approximately one hundred barrels (100 bbls) of produced water. Visibly stained soil along the flow path of the release was scraped up and stockpiled on-site, pending final disposition.

The release affected an area measuring approximately thirty-two thousand, nine hundred square feet (32,900 ft²), which included the caliche pad surrounding the James Ranch Unit #36 Tank Battery, the caliche pad surrounding the nearby Hudson Federal Tank Battery, and the access road connecting the two (2) locations. Approximately eight hundred square feet (800 ft²) of pastureland adjacent to the Hudson Federal Tank Battery was also affected by the release.

The release mingled with an area of historical impact around the James Ranch Unit #36 Tank Battery, which was undergoing remediation at the time. Since the area affected by the June 24, 2012, release is indistinguishable from that affected by the historical release(s), the releases were remediated concurrently.

The Form C-141 is provided as Appendix A. General photographs of the release site are provided as Appendix B.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 1, Township 23 South, Range 30 East. A depth-to-groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately one hundred and seventy feet (170') bgs. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

A search of the NMWRRS database indicated there are no water wells within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

There are no surface water bodies within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

NMOCD guidelines indicate the James Ranch Unit #36 Tank Battery release site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene – 10 mg/kg (ppm)
- Benzene, ethylbenzene, toluene, and xylenes (BTEX) – 50 mg/kg (ppm)
- Total petroleum hydrocarbons (TPH) – 5,000 mg/kg (ppm)

The New Mexico Administrative Code (NMAC) does not currently specify a remediation level for chloride concentrations in soil. Chloride remediation levels are set by the NMOCD on a site-specific basis.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On June 13, 2012, delineation of the historical releases commenced. A series of hand-augered soil borings (Sample #1, Sample #2, Sample #3, Sample #4, Sample #6, and Sample #7) and one (1) delineation trench (Sample #5) were advanced inside the earthen containment area surrounding the James Ranch Unit #36 Tank Battery to investigate the horizontal and vertical extent of impacted soil. The soil borings were each advanced to depths of approximately six inches (6") bgs. The delineation trench was located to the west of the on-site storage tanks, near the release point, and was advanced to a total depth of approximately six feet (6') bgs.

A total of ten (10) delineation soil samples (Sample #1, Sample #2, Sample #3, Sample #4, Sample #5, Sample #5 @ 2', Sample #5 @ 4', Sample #5 @ 6', Sample #6, and Sample #7) were submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of TPH and chloride concentrations in accordance with Environmental Protection Agency (EPA) Methods SW-846 8015M and 4500 Cl-B, respectively. Sample #5 @ 6' was also analyzed for concentrations of BTEX in accordance with EPA Method SW-846 8021b.

Laboratory analytical results indicated TPH concentrations ranged from 164 mg/kg in Sample #4 to 17,487 mg/kg in Sample #6. Chloride concentrations ranged from 208 mg/kg in Sample #3 to 26,800 mg/kg in Sample #7. The benzene concentration in Sample #5 @ 6' was less than the laboratory method detection limit (MDL), and the BTEX concentration was 3.71 mg/kg. Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chloride in Soil". Soil sample locations are depicted in Figure 3, "Site & Sample Location Map - JRU #36 Tank Battery Excavation". Laboratory analytical reports are provided as Appendix E.

From June 18 through June 20, 2012, approximately three hundred and forty cubic yards (340 yd³) of impacted soil was transported to Lea Land, Inc. (NMOCD Permit # WM-01-035), for disposal.

On June 25, 2012, following initial response activities, remediation of the June 24, 2012, release site commenced. From June 25 through June 27, 2012, approximately two hundred and fifty

cubic yards (250 yd³) of heavily impacted soil was excavated from within the containment area surrounding the James Ranch Unit #36 Tank Battery and stockpiled on-site, pending final disposition. To preserve the structural integrity of the on-site storage tanks, the vertical limits of the excavation were limited to approximately six inches (6") to one foot (1') bgs.

On June 27, 2012, a series of hand-augered soil borings were advanced in the containment area to investigate the vertical extent of impacted soil. The soil borings were each advanced to depths of approximately six inches (6") bgs. A total of six (6) delineation soil samples (Sample #8 through Sample #13) were submitted to the laboratory for analysis of TPH and chloride concentrations. Sample #8 was also analyzed for concentrations of BTEX. Laboratory analytical results indicated TPH concentrations ranged from 587 mg/kg in Sample #12 to 20,509 mg/kg in Sample #8. Chloride concentrations ranged from 6,240 mg/kg in Sample #13 to 17,600 mg/kg in Sample #9. The benzene concentration in Sample #8 was less than the laboratory MDL, and the BTEX concentration was 12.1 mg/kg. Soil sample locations are depicted in Figure 3.

Following sample collection, the James Ranch Unit #36 Tank Battery excavation was backfilled with non-impacted soil.

On July 31, 2012, after having procured both permission from the landowner (BLM) and the proper permit from the NMOSE (File #C-03559), four (4) soil borings (SB-1 through SB-4) were advanced at the site to further delineate the vertical extent of impacted soil. Soil samples were collected at five-foot (5') drilling intervals and field-screened using a Photo-Ionization Detector (PID) and/or chloride test kit. Selected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. The locations of the soil borings are depicted in Figure 2, "Site & Sample Location Map - Overview (Aerial)". Soil boring logs are provided as Appendix C. BLM and NMOSE permits are provided as Appendix D.

Soil boring SB-1 was located inside the containment area of the James Ranch Unit #36 Tank Battery. The soil boring was advanced to a total depth of approximately fifty feet (50') bgs. Soil samples collected at drilling depths of five feet (5'), ten feet (10'), twenty-five feet (25'), thirty-five feet (35'), forty-five feet (45'), and fifty feet (50') bgs were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Laboratory analytical results indicated BTEX and TPH constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples. Chloride concentrations ranged from 128 mg/kg in soil sample SB-1 @ 50' to 896 mg/kg in soil sample SB-1 @ 25'.

Soil boring SB-2 was located in the access road between the James Ranch Unit #36 and Hudson Federal tank batteries, in a pooling area along the flow path of the release, approximately two hundred and forty-five feet (245') to the west-southwest of soil boring SB-1. The soil boring was advanced to a total depth of approximately twenty-five feet (25') bgs. Soil samples collected at drilling depths of five feet (5'), ten feet (10'), twenty feet (20'), and twenty-five feet (25') bgs were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Laboratory analytical results indicated BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples. TPH concentrations ranged from less than the laboratory MDL in soil samples SB-2 @ 10' and SB-2 @ 25' to 15.4 mg/kg in soil sample SB-2 @ 5'. Chloride concentrations ranged from 144 mg/kg in soil sample SB-2 @ 20' to 1,880 mg/kg in soil sample SB-2 @ 5'.

Soil boring SB-3 was located in the access road between the James Ranch Unit #36 and Hudson Federal tank batteries, in a pooling area along the flow path of the release, approximately three hundred and eighty feet (380') to the west of soil boring SB-2. The soil boring was advanced to a total depth of approximately twenty feet (20') bgs. Soil samples collected at drilling depths of five feet (5'), ten feet (10'), fifteen feet (15'), and twenty feet (20') bgs were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Laboratory analytical results indicated BTEX and TPH constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples. Chloride concentrations ranged from 208 mg/kg in soil sample SB-3 @ 20' to 1,520 mg/kg in soil sample SB-3 @ 5'.

Soil boring SB-4 was located in a pooling area near the terminus of the flow path of the release, adjacent to, and to the south of, the containment area surrounding the Hudson Federal Tank Battery. The soil boring was advanced to a total depth of approximately twenty-five feet (25') bgs. Soil samples collected at drilling depths of five feet (5'), ten feet (10'), fifteen feet (15'), twenty feet (20'), and twenty-five feet (25') bgs were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Laboratory analytical results indicated BTEX and TPH constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples. Chloride concentrations ranged from 256 mg/kg in soil sample SB-4 @ 25' to 992 mg/kg in soil sample SB-4 @ 15'.

On February 4, 2013, excavation of impacted soil commenced at the Hudson Federal Tank Battery. A chloride test kit was used to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. To facilitate remediation activities, the excavation was divided into two (2) sections: Tank Battery Excavation and Pooling Area Excavation. The Tank Battery Excavation was located in the area represented by soil boring SB-4. The Pooling Area Excavation was located in pastureland adjacent to the Hudson Federal Tank Battery, at the terminus of the flow path of the release. From February 4 through March 28, 2013, excavated soil was stockpiled on-site, pending final disposition.

On February 13, 2013, sixteen (16) soil samples (Sample #1 through Sample #16) were collected from the floor and sidewalls of the Tank Battery Excavation and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 160 mg/kg in Sample #7, Sample #8, Sample #9, and Sample #12 to 3,200 mg/kg in Sample #1. Soil sample locations are depicted in Figure 4, "Site & Sample Location Map - Hudson Tank Battery Excavation".

Further excavation in the areas represented by Sample #1, Sample #3, Sample #6, and Sample #10 was deemed impracticable due to the presence of active pipelines and appurtenances adjacent to the Tank Battery Excavation.

On March 11, 2013, thirteen (13) soil samples (Sample #1 through Sample #13) were collected from the floor and sidewalls of the Pooling Area Excavation and submitted to the laboratory for analysis of chloride concentrations. Sample #3 and Sample #11 were also analyzed for concentrations of BTEX. Laboratory analytical results indicated chloride concentrations ranged from 48.0 mg/kg in Sample #8 to 864 mg/kg in Sample #2. TPH and BTEX constituent concentrations in Sample #3 and Sample #11 were less than the appropriate laboratory MDL. Soil sample locations are depicted in Figure 5, "Site & Sample Location Map - Hudson Pooling Area Excavation".

Based on laboratory analytical results, from March 20 through April 1, 2013, the Hudson Federal Tank Battery excavations were backfilled in eighteen-inch (18") lifts, compacted, and contoured to fit the surrounding topography. Prior to backfilling, the final dimensions of the Tank Battery Excavation were approximately one hundred and sixty-six feet (166') in length, varying in width from approximately three feet (3') to approximately seventy-five feet (75'), and varying in depth from approximately one and one-half feet (1.5') to approximately two and one-half feet (2.5') bgs. Final dimensions of the Pooling Area Excavation were approximately eighty-nine feet (89') in length, varying in width from approximately fifty-one feet (51') to approximately fifty-eight feet (58'), and varying in depth from approximately two feet (2') to approximately eight feet (8') bgs.

On March 27, 2013, additional excavation was conducted adjacent to, and to the west of, the James Ranch Unit #36 Tank Battery, along the flow path of the release. Excavated soil was stockpiled on-site, pending final disposition.

On March 28, 2013, the second James Ranch Unit #36 Tank Battery excavation was backfilled with non-impacted soil, compacted, and contoured to fit the surrounding topography. Prior to backfilling, the final dimensions of the excavation were approximately one hundred and fifteen feet (115') in length, approximately twenty feet (20') in width, and approximately six inches (6") in depth. The boundaries of the excavation are depicted in Figure 3.

From February 7 through April 1, 2013, approximately one thousand, four hundred and ninety-five cubic yards (1,495 yd³) of impacted soil was transported to Lea Land, Inc., for disposal.

To mitigate future releases, a steel-walled containment area has been constructed around the James Ranch Unit #36 Tank Battery. A felt liner has been installed in the floor of the new containment area, and the floor and perimeter walls have been coated with an impermeable, spray-on polyurethane liner. The steel perimeter walls extend approximately two feet (2') above ground surface.

Upon landowner request, the area disturbed by the Hudson Federal Tank Battery Pooling Area Excavation will be seeded with a BLM-approved seed mixture at a time conducive to germination.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Xenco Laboratories in Odessa, Texas, for BTEX, TPH, and/or chloride analyses using the methods described below:

- BTEX concentrations in accordance with EPA Method SW-846 8021b
- TPH concentrations in accordance with EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Methods 4500 Cl-B

4.2 Decontamination of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

4.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form(s). These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

5.0 SITE CLOSURE REQUEST

Soil samples collected from the floor and sidewalls of the Tank Battery and Pooling Area Excavations were analyzed by an NMOCD-approved laboratory, and concentrations of benzene, BTEX, and TPH were below the regulatory remediation action levels established for the site by the NMOCD.

The Tank Battery Excavation was excavated to the extent practicable. Soil exhibiting chloride concentrations above the regulatory remediation action level will be remediated upon decommission or abandonment of the currently active tank battery and/or pipelines.

Basin Environmental recommends BOPCO provide the NMOCD Artesia District Office a copy of this *Remediation Summary & Site Closure Request* and request the NMOCD grant site closure to the James Ranch Unit #36 Tank Battery release site.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin Environmental has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin Environmental has not conducted an independent examination of the facts contained in referenced materials and statements. Basin Environmental has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin Environmental has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of BOPCO, LP. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or BOPCO, LP.

7.0 DISTRIBUTION:

Copy 1: Mike Bratcher
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Oil Conservation Division (District 2)
1301 E. Grand Avenue
Artesia, NM 88210

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Bureau of Land Management
602 E. Greene Street
Carlsbad, NM 88220

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522 W. Mermod, Suite 704
Carlsbad, NM 88220

Copy 4: Basin Environmental Service Technologies, LLC
P.O. Box 301
Lovington, NM 88260

Figures

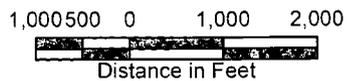
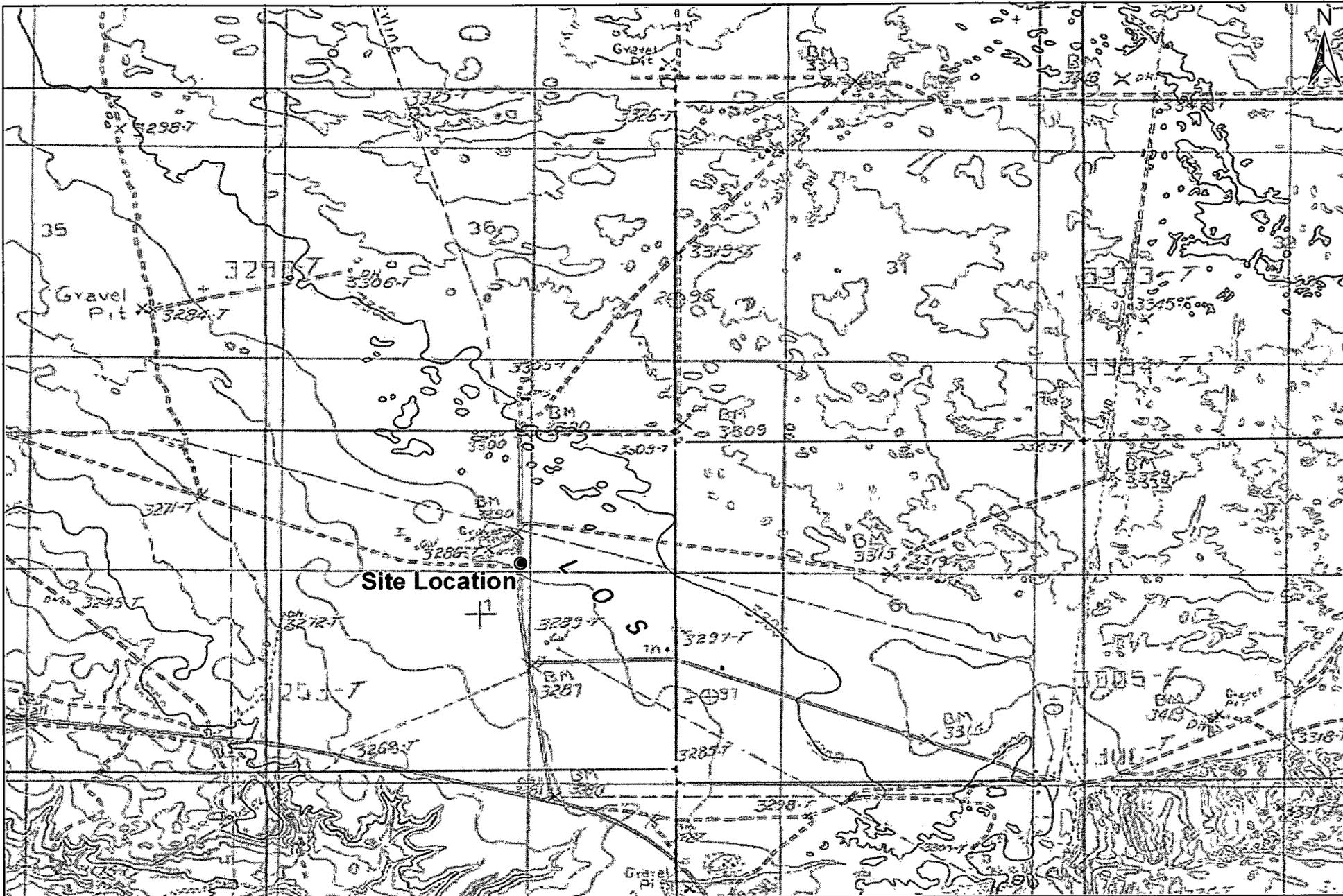


Figure 1
Site Location Map
BOPCO, LP
 James Ranch Unit #36 Tank Battery
 Eddy County, New Mexico
 NMOCD Reference #: 2RP-1204



Basin Environmental Service Technologies, LLC
 3100 Plains Hwy.
 Lovington, NM 88260

Drawn By: BJA	Checked By: BRB
September 5, 2012	Scale: 1" = 2000'



Legend

- Spill Margins
- Soil Boring

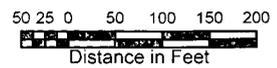
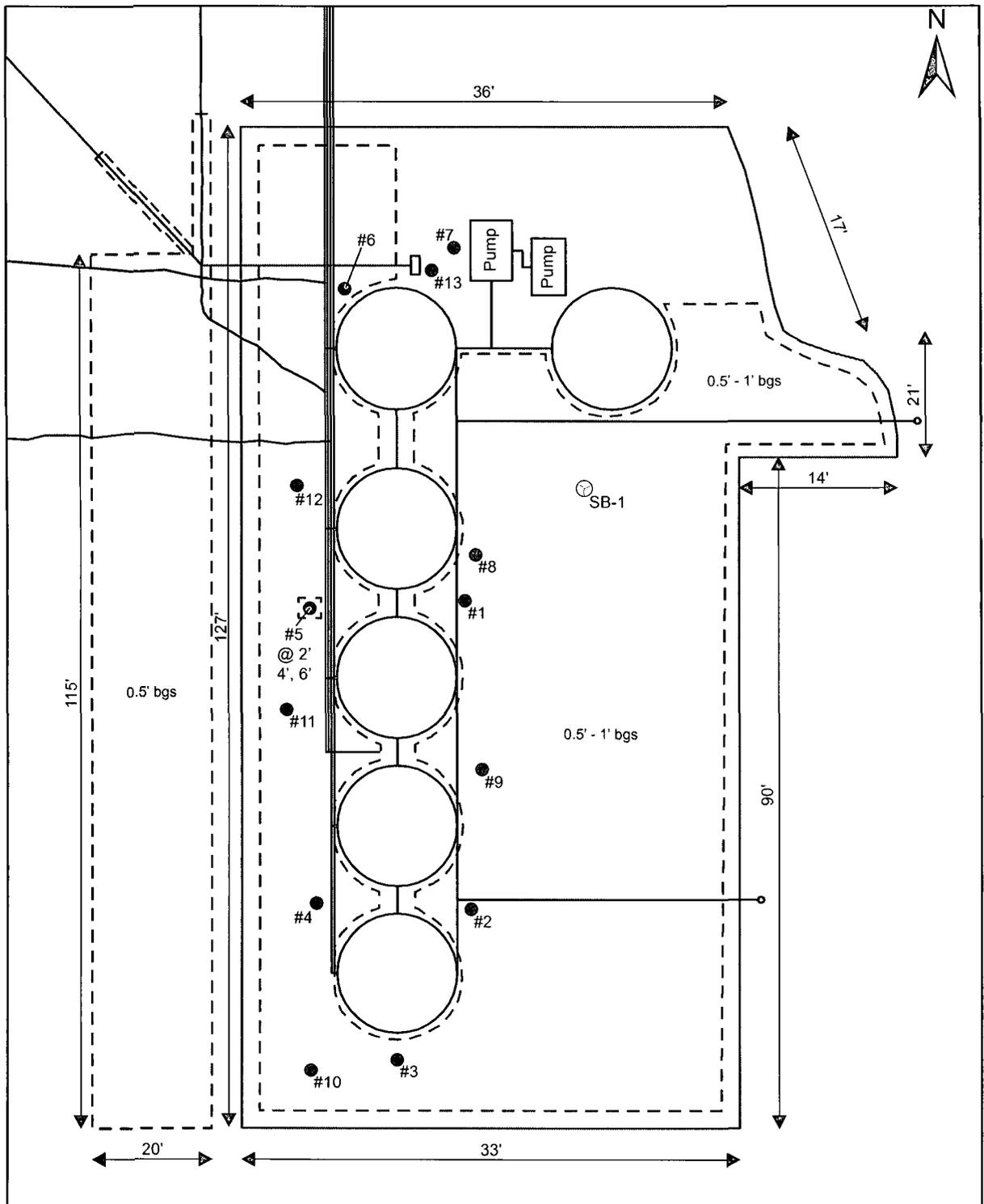


Figure 2
Site & Sample Location Map
Overview (Aerial)
James Ranch Unit #36 Tank Battery
BOPCO, LP
Eddy County, New Mexico
NMOCD Reference #: 2RP-1204



Basin Environmental Service Technologies, LLC
 3100 Plains Hwy.
 Lovington, NM 88260

Drawn By: BJA	Checked By: BRB
December 11, 2013	Scale: 1" = 200'

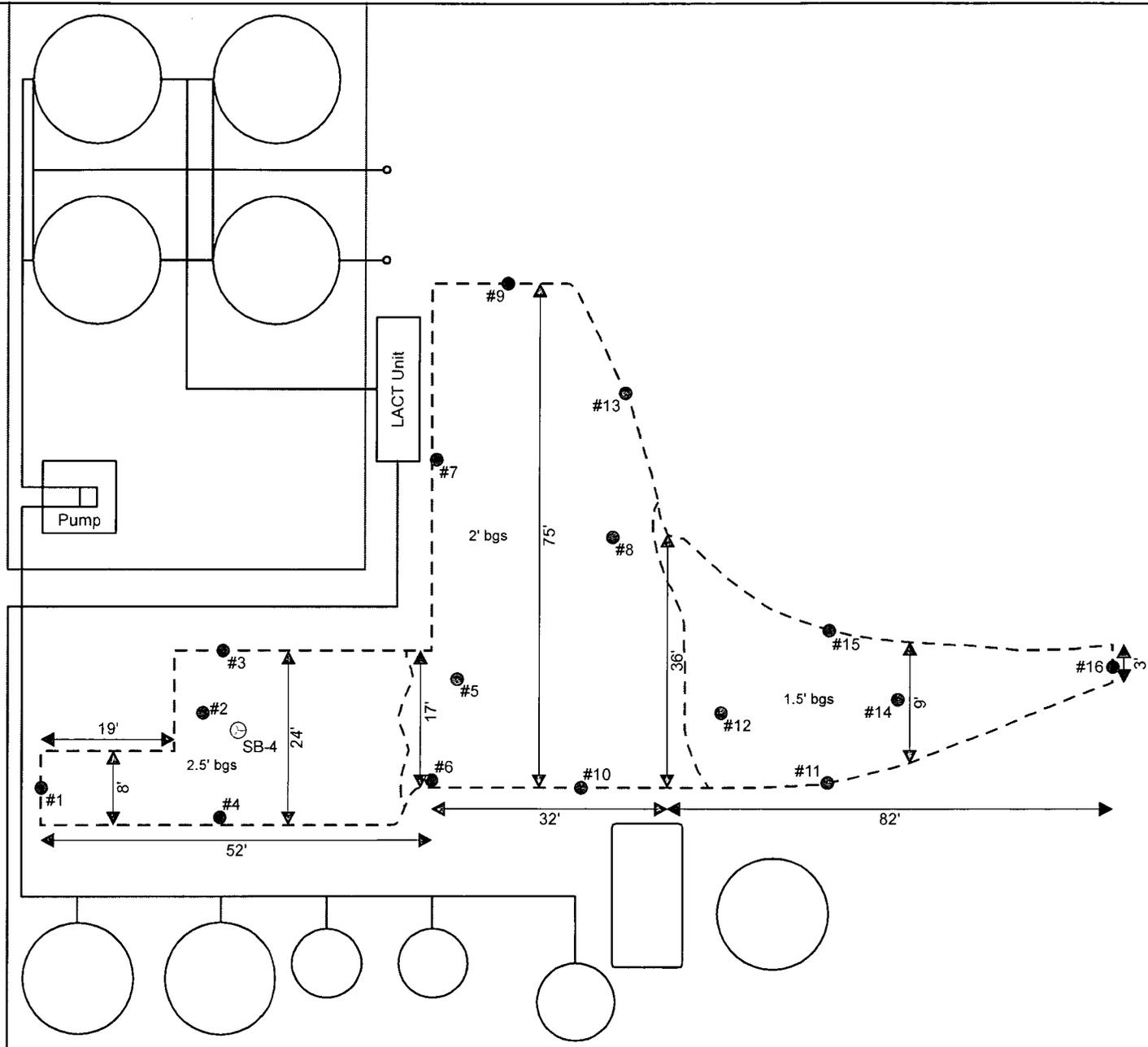


*Map Not To Scale

Legend	
- - Excavation	⊙ Soil Boring
— Pipeline	● Sample Location
— Steel Berm	
— Electrical Conduit	

Figure 3
Site & Sample Location Map
JRU #36 Tank Battery Excavation
BOPCO, LP
Eddy County, New Mexico
NMOCD Reference #: 2RP-1204

	Basin Environmental Service Technologies 3100 Plains Hwy. Lovington, NM 88260	
	Drawn By: BJA	Checked By: BRB
	Dec. 13, 2013	Not to Scale



Legend

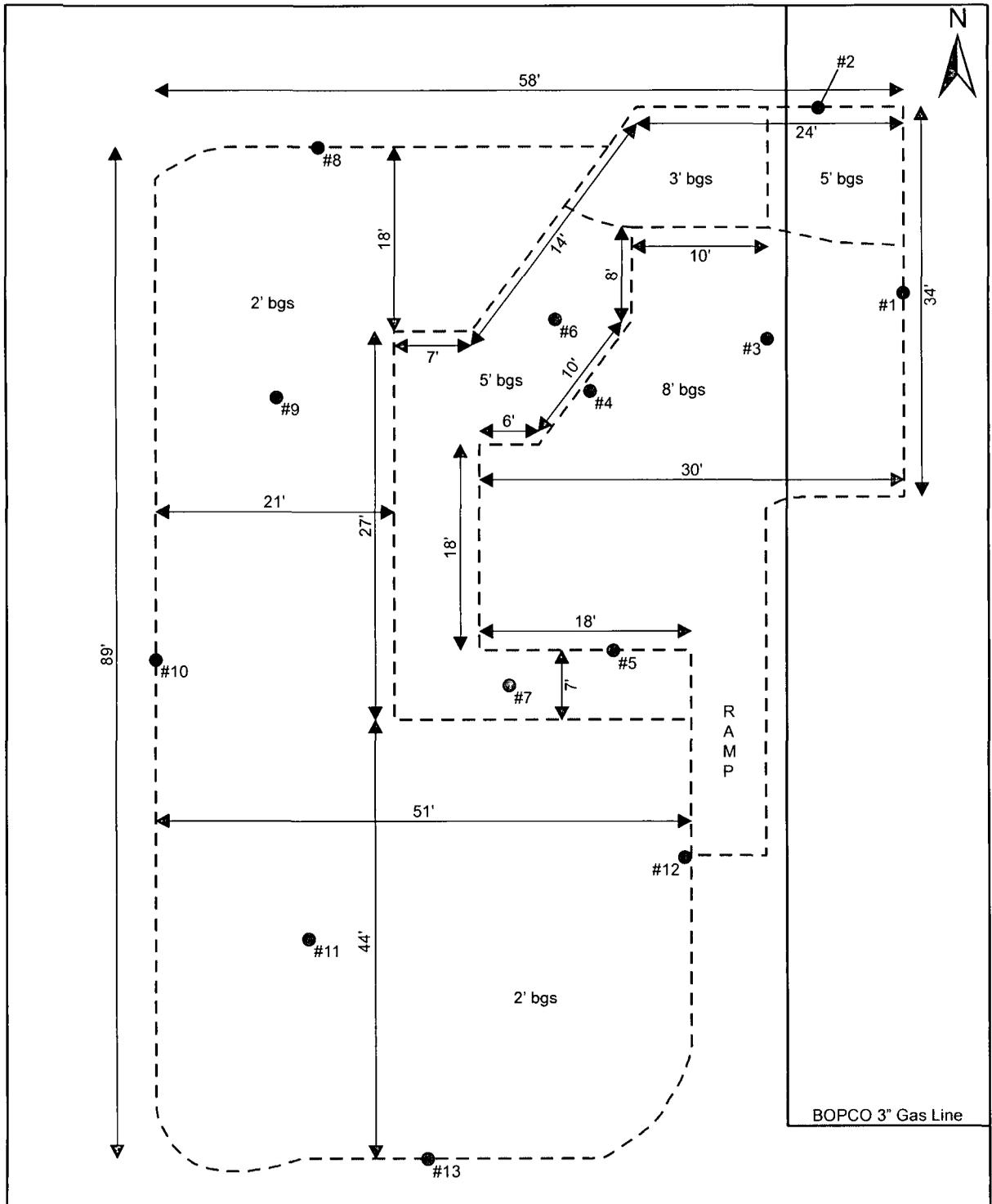
- - Excavation Extent
- Sample Location
- Pipeline
- Steel Berm
- Soil Boring

Figure 4
Site & Sample Location Map
Hudson Tank Battery Excavation
James Ranch Unit #36 Tank Battery
BOPCO, LP
 Eddy County, New Mexico
 NMOC Reference #: 2RP-1204



Basin Environmental Service Technologies, LLC
 3100 Plains Hwy.
 Lovington, NM 88260

Drawn By: BJA	Checked By: BRB
December 10, 2013	Scale: 1" = 15'



*Map Not To Scale

Legend - - - Excavation ● Sample — Pipeline	Figure 5 Site & Sample Location Map Hudson Pooling Area Excavation James Ranch Unit #36 Tank Battery BOPCO, LP Eddy County, New Mexico NMOCD Reference #: 2RP-1204		Basin Environmental Service Technologies 3100 Plains Hwy. Lovington, NM 88260	
			Drawn By: BJA Dec. 10, 2013	Checked By: BRB Not to Scale

Tables

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP
 JAMES RANCH UNIT #36 TANK BATTERY
 EDDY COUNTY, NEW MEXICO
 NMOCD REFERENCE #: 2RP-1204

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	4500 CI-B CHLORIDE (mg/Kg)
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)		
Sample #1	0.5'	6/13/2012	Excavated	-	-	-	-	-	1,040	6,970	1,250	9,260	17,400
Sample #2	0.5'	6/13/2012	Excavated	-	-	-	-	-	352	8,550	1,660	10,562	704
Sample #3	0.5'	6/13/2012	Excavated	-	-	-	-	-	<50.0	476	268	744	208
Sample #4	0.5'	6/13/2012	Excavated	-	-	-	-	-	<10.0	111	52.6	164	3,920
Sample #5	0.5'	6/13/2012	Excavated	-	-	-	-	-	611	9,170	1,970	11,751	11,400
Sample #5 @ 2'	2'	6/13/2012	Excavated	-	-	-	-	-	1,130	7,690	1,390	10,210	2,880
Sample #5 @ 4'	4'	6/13/2012	Excavated	-	-	-	-	-	931	6,120	1,080	8,131	7,680
Sample #5 @ 6'	6'	6/13/2012	Excavated	<0.050	0.165	0.740	2.80	3.71	233	5,120	1,010	6,363	16,000
Sample #6	0.5'	6/13/2012	Excavated	-	-	-	-	-	867	13,800	2,820	17,487	14,200
Sample #7	0.5'	6/13/2012	Excavated	-	-	-	-	-	230	9,690	2,060	11,980	26,800
Sample #8	0.5'	6/27/2012	In-Situ	<0.250	0.867	3.29	7.97	12.1	999	15,100	4,410	20,509	13,200
Sample #9	0.5'	6/27/2012	In-Situ	-	-	-	-	-	11.4	662	185	858	17,600
Sample #10	0.5'	6/27/2012	In-Situ	-	-	-	-	-	<50.0	335	308	643	8,400
Sample #11	0.5'	6/27/2012	In-Situ	-	-	-	-	-	<50.0	1,330	478	1,808	6,880
Sample #12	0.5'	6/27/2012	In-Situ	-	-	-	-	-	<10.0	443	144	587	16,400
Sample #13	0.5'	6/27/2012	In-Situ	-	-	-	-	-	80.2	4,200	941	5,221	6,240
SB-1 @ 5'	5'	7/31/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	272
SB-1 @ 10'	10'	7/31/2012	In-Situ	<0.050	<0.050	<0.050	<0.0150	<0.0150	<10.0	<10.0	<10.0	<10.0	304
SB-1 @ 25'	25'	7/31/2012	In-Situ	<0.050	<0.050	<0.050	<0.0150	<0.0150	<10.0	<10.0	<10.0	<10.0	896
SB-1 @ 35'	35'	7/31/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	384
SB-1 @ 45'	45'	7/31/2012	In-Situ	-	-	-	-	-	-	-	-	-	176
SB-1 @ 50'	50'	7/31/2012	In-Situ	<0.050	<0.050	<0.050	<0.0150	<0.0150	<10.0	<10.0	<10.0	<10.0	128
SB-2 @ 5'	5'	7/31/2012	In-Situ	-	-	-	-	-	<10.0	15.4	<10.0	15.4	1,880
SB-2 @ 10'	10'	7/31/2012	In-Situ	<0.050	<0.050	<0.050	<0.0150	<0.0150	<10.0	<10.0	<10.0	<10.0	944
SB-2 @ 20'	20'	7/31/2012	In-Situ	-	-	-	-	-	-	-	-	-	144
SB-2 @ 25'	25'	7/31/2012	In-Situ	<0.050	<0.050	<0.050	<0.0150	<0.0150	<10.0	<10.0	<10.0	<10.0	192

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP
 JAMES RANCH UNIT #36 TANK BATTERY
 EDDY COUNTY, NEW MEXICO
 NMOC REFERENCE #: 2RP-1204

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	4500 CI-B CHLORIDE (mg/Kg)
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)		
SB-3 @ 5'	5'	7/31/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	1,520
SB-3 @ 10'	10'	7/31/2012	In-Situ	<0.050	<0.050	<0.050	<0.0150	<0.0150	<10.0	<10.0	<10.0	<10.0	736
SB-3 @ 15'	15'	7/31/2012	In-Situ	-	-	-	-	-	-	-	-	-	320
SB-3 @ 20'	20'	7/31/2012	In-Situ	<0.050	<0.050	<0.050	<0.0150	<0.0150	<10.0	<10.0	<10.0	<10.0	208
SB-4 @ 5'	5'	7/31/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	480
SB-4 @ 10'	10'	7/31/2012	In-Situ	<0.050	<0.050	<0.050	<0.0150	<0.0150	<10.0	<10.0	<10.0	<10.0	720
SB-4 @ 15'	15'	7/31/2012	In-Situ	-	-	-	-	-	-	-	-	-	992
SB-4 @ 20'	20'	7/31/2012	In-Situ	-	-	-	-	-	-	-	-	-	352
SB-4 @ 25'	25'	7/31/2012	In-Situ	<0.050	<0.050	<0.050	<0.0150	<0.0150	<10.0	<10.0	<10.0	<10.0	256
Sample #1	2'	2/13/2013	In-Situ	-	-	-	-	-	-	-	-	-	3,200
Sample #2	2.5'	2/13/2013	In-Situ	-	-	-	-	-	-	-	-	-	208
Sample #3	2'	2/13/2013	In-Situ	-	-	-	-	-	-	-	-	-	1,230
Sample #4	2'	2/13/2013	In-Situ	-	-	-	-	-	-	-	-	-	272
Sample #5	2'	2/13/2013	In-Situ	-	-	-	-	-	-	-	-	-	592
Sample #6	1.5'	2/13/2013	In-Situ	-	-	-	-	-	-	-	-	-	1,840
Sample #7	1.5'	2/13/2013	In-Situ	-	-	-	-	-	-	-	-	-	160
Sample #8	2'	2/13/2013	In-Situ	-	-	-	-	-	-	-	-	-	160
Sample #9	1.5'	2/13/2013	In-Situ	-	-	-	-	-	-	-	-	-	160
Sample #10	1.5'	2/13/2013	In-Situ	-	-	-	-	-	-	-	-	-	1,540
Sample #11	1'	2/13/2013	In-Situ	-	-	-	-	-	-	-	-	-	320
Sample #12	1.5'	2/13/2013	In-Situ	-	-	-	-	-	-	-	-	-	160
Sample #13	1.5'	2/13/2013	In-Situ	-	-	-	-	-	-	-	-	-	320
Sample #14	1.5'	2/13/2013	In-Situ	-	-	-	-	-	-	-	-	-	320
Sample #15	1'	2/13/2013	In-Situ	-	-	-	-	-	-	-	-	-	368
Sample #16	1'	2/13/2013	In-Situ	-	-	-	-	-	-	-	-	-	640

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP
 JAMES RANCH UNIT #36 TANK BATTERY
 EDDY COUNTY, NEW MEXICO
 NMOCD REFERENCE #: 2RP-1204

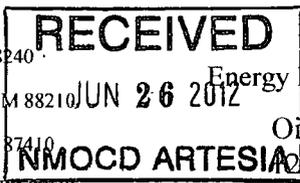
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	4500 Cl-B CHLORIDE (mg/Kg)
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)		
Sample #1	4'	3/11/2013	In-Situ	-	-	-	-	-	-	-	-	-	720
Sample #2	4'	3/11/2013	In-Situ	-	-	-	-	-	-	-	-	-	864
Sample #3	8'	3/11/2013	In-Situ	<0.050	<0.050	<0.050	<0.0150	<0.0150	<10.0	<10.0	<10.0	<10.0	128
Sample #4	7'	3/11/2013	In-Situ	-	-	-	-	-	-	-	-	-	256
Sample #5	7'	3/11/2013	In-Situ	-	-	-	-	-	-	-	-	-	758
Sample #6	5'	3/11/2013	In-Situ	-	-	-	-	-	-	-	-	-	112
Sample #7	5'	3/11/2013	In-Situ	-	-	-	-	-	-	-	-	-	576
Sample #8	1.5'	3/11/2013	In-Situ	-	-	-	-	-	-	-	-	-	48.0
Sample #9	2'	3/11/2013	In-Situ	-	-	-	-	-	-	-	-	-	96.0
Sample #10	1.5'	3/11/2013	In-Situ	-	-	-	-	-	-	-	-	-	80.0
Sample #11	2'	3/11/2013	In-Situ	<0.050	<0.050	<0.050	<0.0150	<0.0150	<10.0	<10.0	<10.0	<10.0	64.0
Sample #12	1.5'	3/11/2013	In-Situ	-	-	-	-	-	-	-	-	-	304
Sample #13	1.5'	3/11/2013	In-Situ	-	-	-	-	-	-	-	-	-	336
NMOCD Regulatory Standard				10				50				5,000	1,000

- = Not analyzed.

Appendices

Appendix A
Release Notification &
Corrective Action (Form C-141)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

nJMW 1219343081

OPERATOR

Initial Report Final Report

Name of Company BOPCO, L.P.	260737	Contact Tony Savoie
Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220		Telephone No. 432-556-8730
Facility Name James Ranch Unit #36 Tank Battery		Facility Type E&P

Surface Owner Federal	Mineral Owner Federal	Lease No. NM-02884B APZ#
-----------------------	-----------------------	-------------------------------------

LOCATION OF RELEASE

30-015-27686

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
AG	36	22S 23S	30E	1980	North	1860	East	Eddy

Latitude N 32.335615 Longitude W 103.832117

NATURE OF RELEASE

Type of Release: Produced water and crude oil	Volume of Release: 450 bbls of produced water and 5 bbls of crude oil.	Volume Recovered: 100 bbls produced water.
Source of Release: Produced water storage tank	Date and Hour of Occurrence: 6/24/12, Hour unknown	Date and Hour of Discovery: 6/24/12 7:30 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD Emergency #104 and Jim Amos with the BLM	
By Whom? Tony Savoie	Date and Hour 6/24/12, NMOCD at 9:14 a.m. BLM at 9:37 a.m.	
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 primary water pump failed to operate properly due to motor bearing problems, the secondary water transfer pump failed to operate due to Head Switch malfunction, the high level alarm failed to operate properly due to a calibration error and wiring problem. All failures were corrected the same day.

Describe Area Affected and Cleanup Action Taken. Approximately 32,900 sq.ft. of caliche road and tank battery pad area around the JRU-36 and the road going to the Hudson Federal and adjacent well pad. Approximately 800 sq.ft. of pasture land was impacted near the Hudson tank battery. The tank battery location at the JRU-36 was currently being re-built and remediated; approximately 340 cubic yards of impacted soil had been excavated and hauled to Lea Land. The area around the tanks had been sampled on 6/13/12 to determine the amount of contamination that remained around the tank battery and the vertical extent of the historical releases. A copy of the sample results is attached. Vertical extent could not be obtained during the sampling event, an air rotary rig was being scheduled to complete the delineation. We will continue to delineate the area around the tank battery and the newly impacted area from the recent release. A remediation plan will be developed in accordance with the NMOCD and BLM remediation guidelines.

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

Signature: <u>Tony Savoie</u>	OIL CONSERVATION DIVISION	
Printed Name: Tony Savoie	Approved by District Supervisor:	Signed By: <u>Mike Bernier</u>
Title: Waste Mgmt. & Remediation Specialist	Approval Date: <u>JUL 11 2012</u>	Expiration Date:
E-mail Address: TASavoie@BassPet.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 6/24/12	Phone: 432-556-8730	

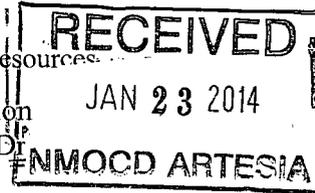
* Attach Additional Sheets If Necessary

Remediation per OCD Rules & Guidelines. **SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:**
8-11-2012

2RP-1204

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report X Final Report

Name of Company	BOPCO, LP	2607 37	Contact	Tony Savoie
Address	522 W. Mermod, Suite 704, Carlsbad, NM 88220		Telephone No.	(432)556-8730
Facility Name	James Ranch Unit #36		Facility Type	E&P 27686

Surface Owner	Federal	Mineral Owner	Federal	Lease No.	API #30-015-2786
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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
G	1	23S	30E	1980	North	1860	East	Eddy

Latitude 32.335615° North **Longitude** 103.832117° West

NATURE OF RELEASE

Type of Release	Produced water and crude oil	Volume of Release	450 bbls of produced water and 5 bbls of crude oil	Volume Recovered	100 bbls
Source of Release	Produced water storage tank	Date and Hour of Occurrence	6/24/12, Hour unknown	Date and Hour of Discovery	6/24/12 7:30 a.m.
Was Immediate Notice Given?	X Yes No Not Required	If YES, To Whom?	NMOCD Emergency #104 and Jim Amos with the BLM		
By Whom?	Tony Savoie	Date and Hour	6/24/12, NMOCD at 9:14 a.m. BLM at 9:37 a.m.		
Was a Watercourse Reached?	<input type="checkbox"/> Yes X No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* The primary water pump failed to operate properly due to motor bearing problems. The secondary water transfer pump failed to operate due to Head Switch malfunction. The high level alarm failed to operate properly due to a calibration error and wiring problem. All failures were corrected the same day.

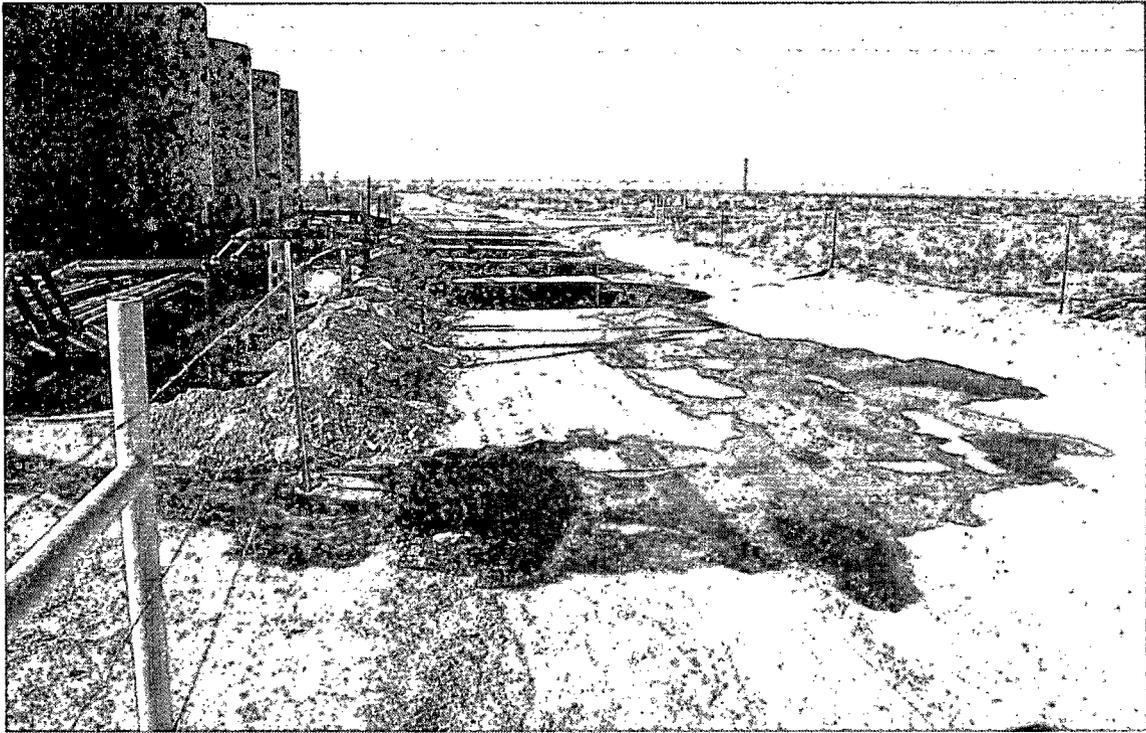
Describe Area Affected and Cleanup Action Taken.* Approximately 32,900 ft² of caliche road and tank battery pad area around the JRU-36 and the road going to the Hudson Federal Battery and adjacent well pad. Approximately 800 ft² of pasture land was impacted near the Hudson tank battery. Following initial response activities, the release was remediated as per NMOCD recommended guidelines. Please reference the attached *Remediation Summary & Risk-Based Site Closure Request* for remediation details.

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

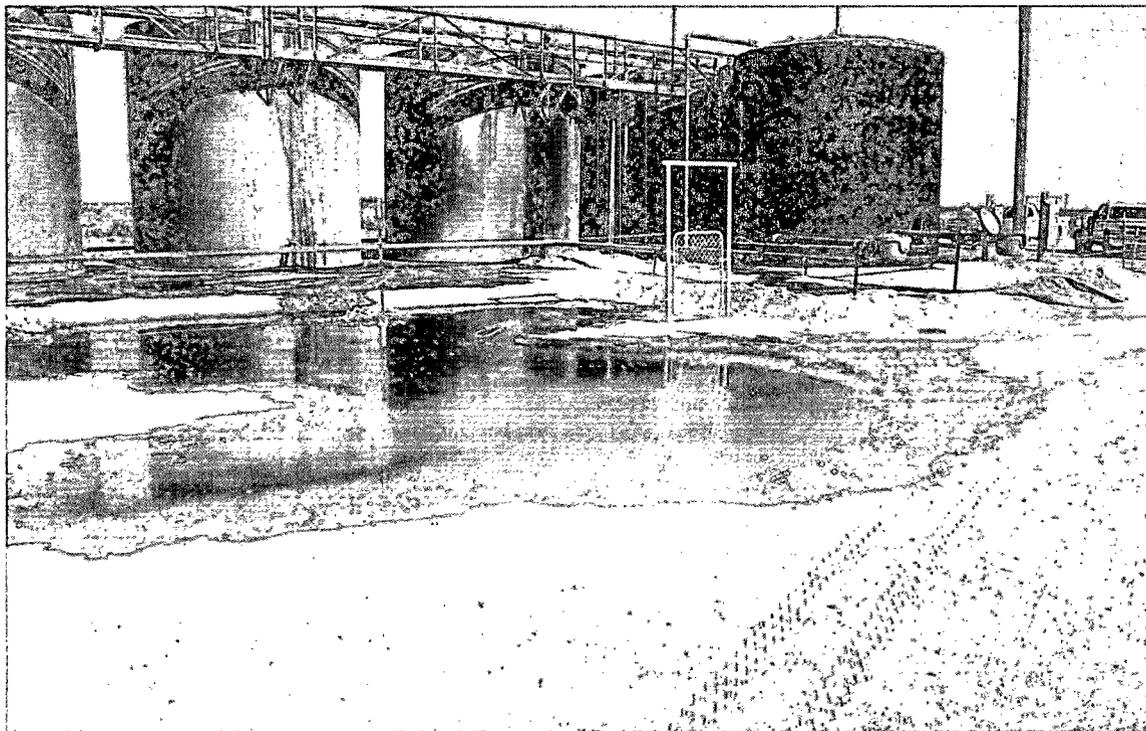
Signature:		OIL CONSERVATION DIVISION	
Printed Name:	Tony Savoie	Approved by District Supervisor:	
Title:	Waste Mgmt. & Remediation Specialist	Approval Date:	Expiration Date:
E-mail Address:	TASavoie@BassPet.com	Conditions of Approval:	
Date:	1/22/14	Phone:	432-556-8730

2R P-1204

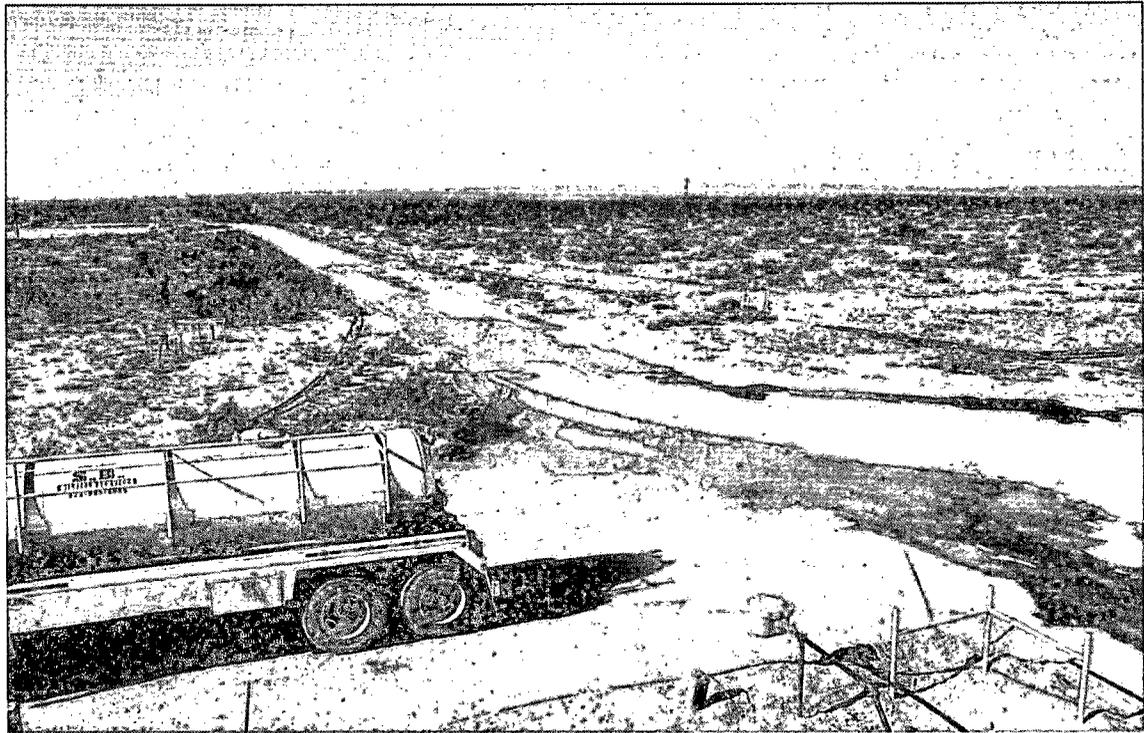
Appendix B
Photographs



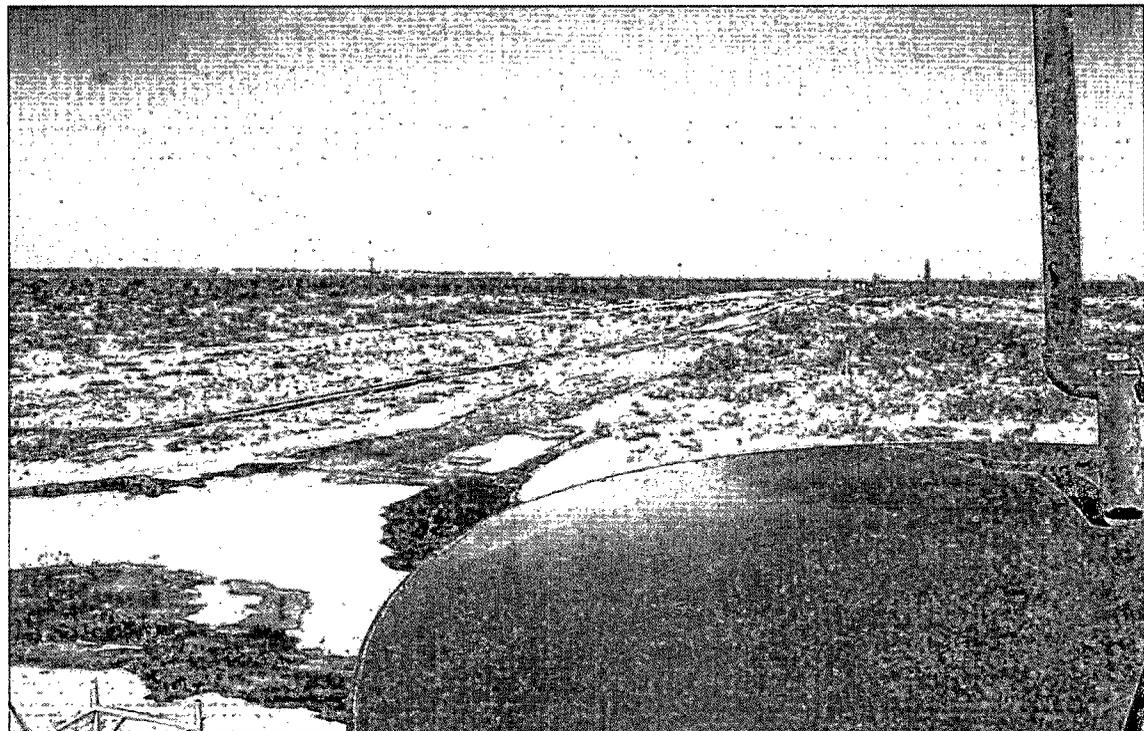
James Ranch Unit #36 Tank Battery - Release Site (Looking South)



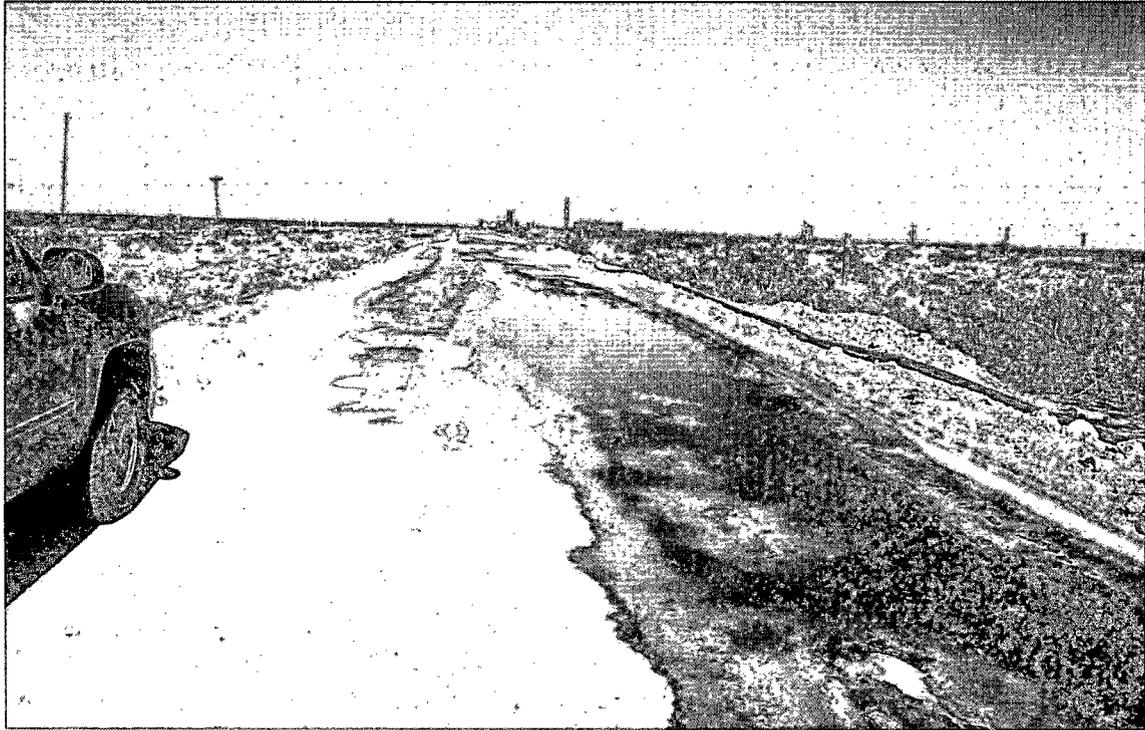
James Ranch Unit #36 Tank Battery - Release Site (Looking Northwest)



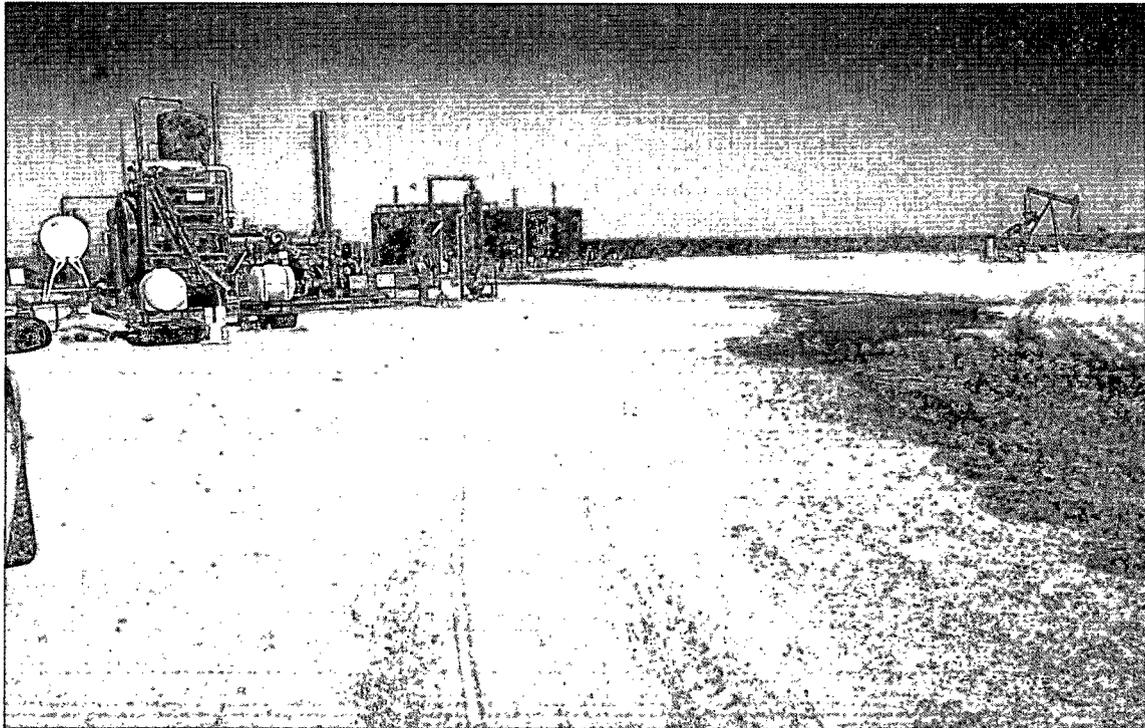
James Ranch Unit #36 Tank Battery - Flow Path (Looking Southwest)



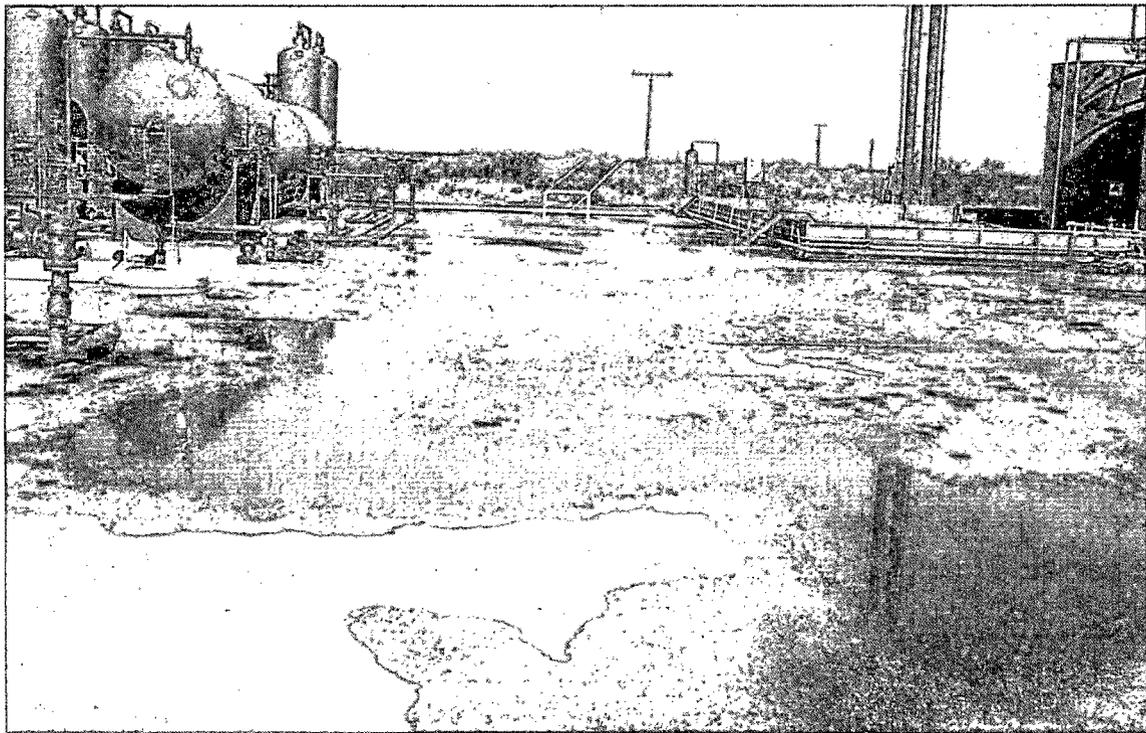
James Ranch Unit #36 Tank Battery - Flow Path (Looking West-southwest)



James Ranch Unit #36 Tank Battery - Flow Path (Looking West)



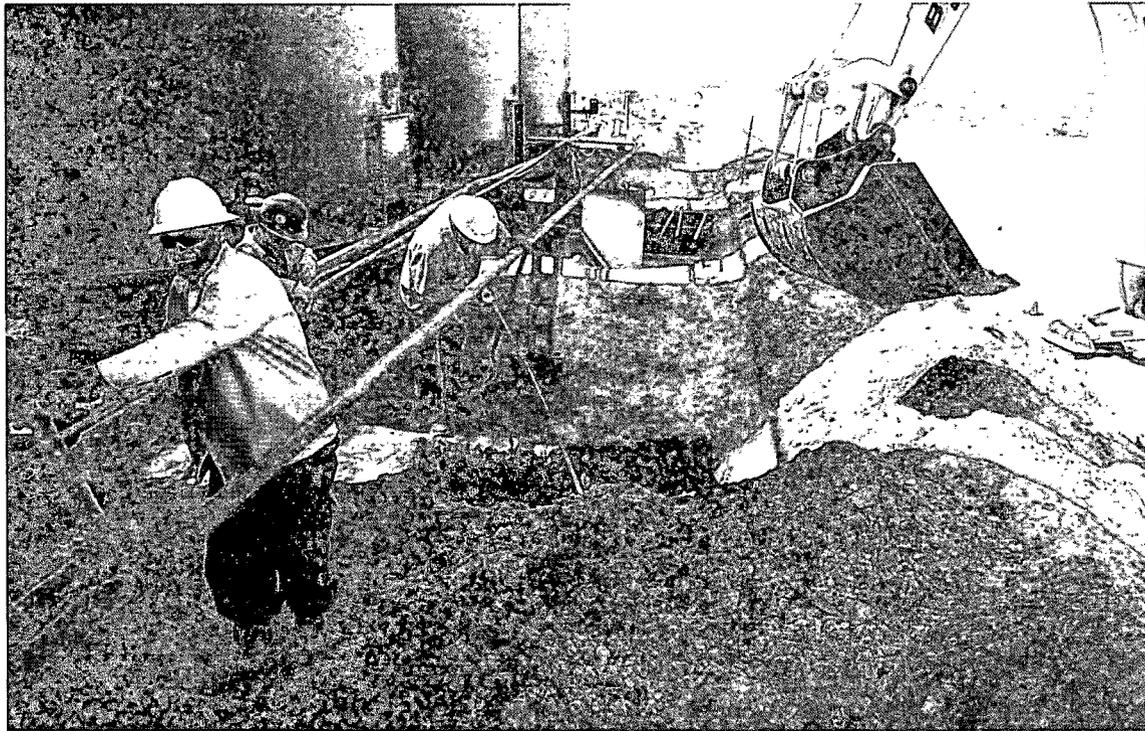
James Ranch Unit #36 Tank Battery - Flow Path at Hudson Federal Battery (Looking Northwest)



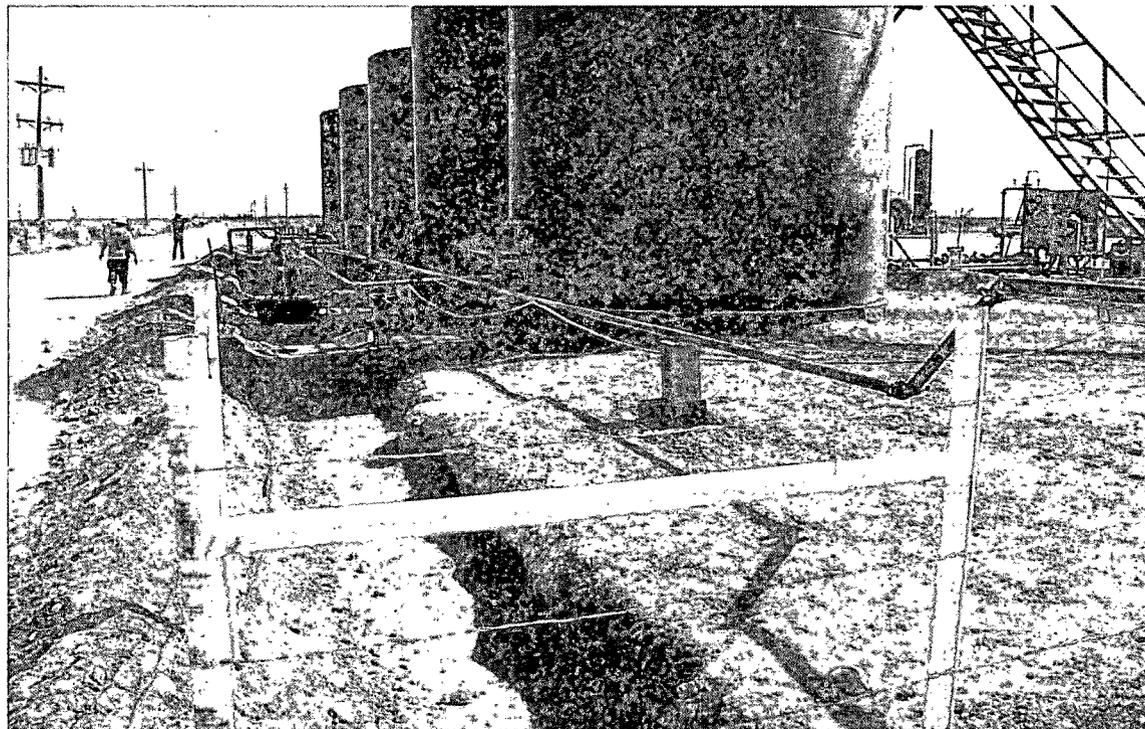
James Ranch Unit #36 Tank Battery - Pooling Area at Hudson Federal Battery (Looking West)



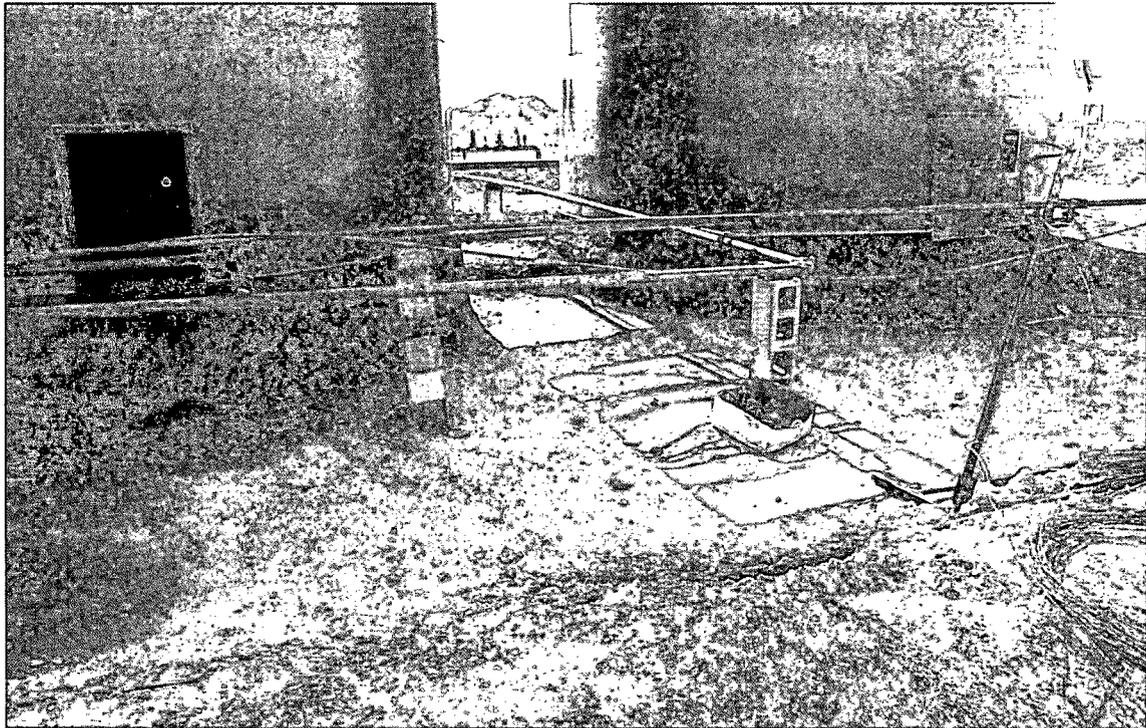
James Ranch Unit #36 Tank Battery - Pooling Area at Hudson Federal Battery
(Looking Northeast)



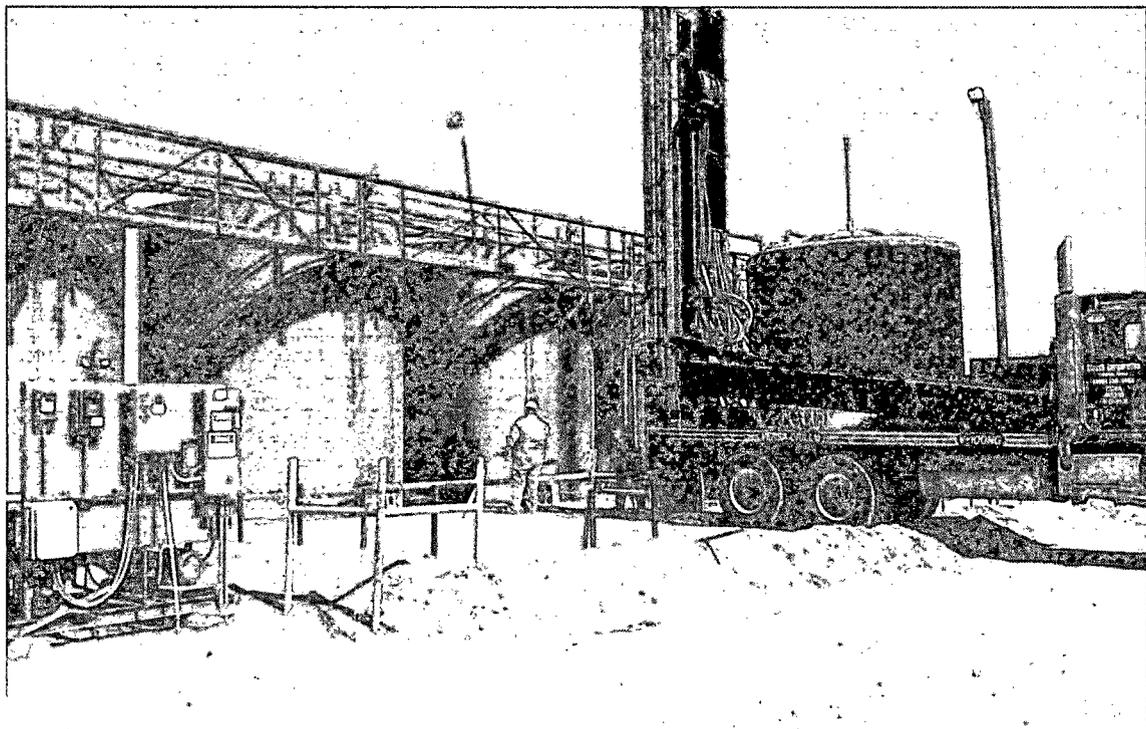
James Ranch Unit #36 Tank Battery - Excavation & Delineation Trenching



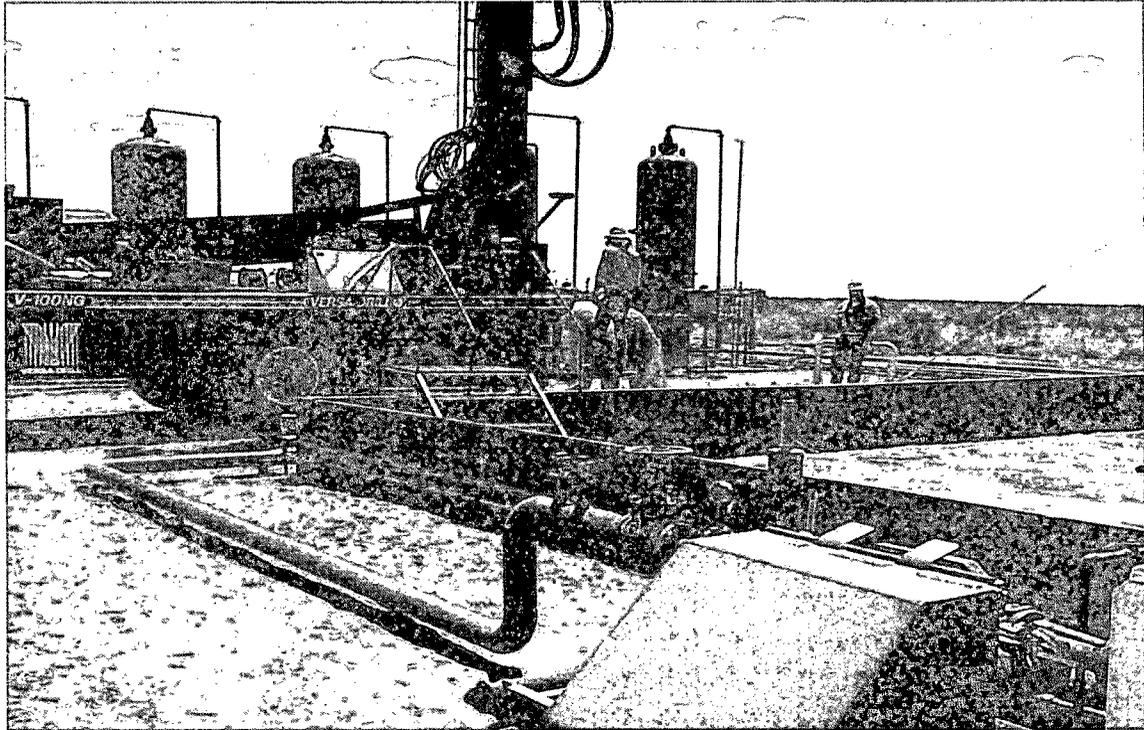
James Ranch Unit #36 Tank Battery - Excavation



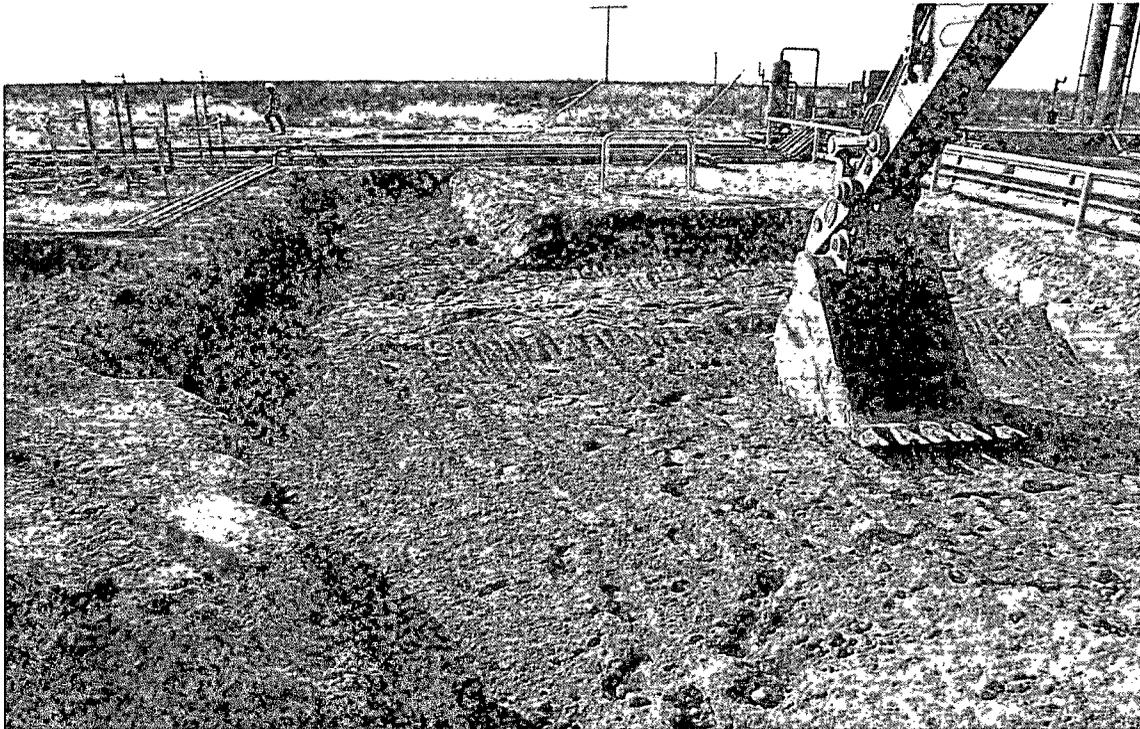
James Ranch Unit #36 Tank Battery - Excavation



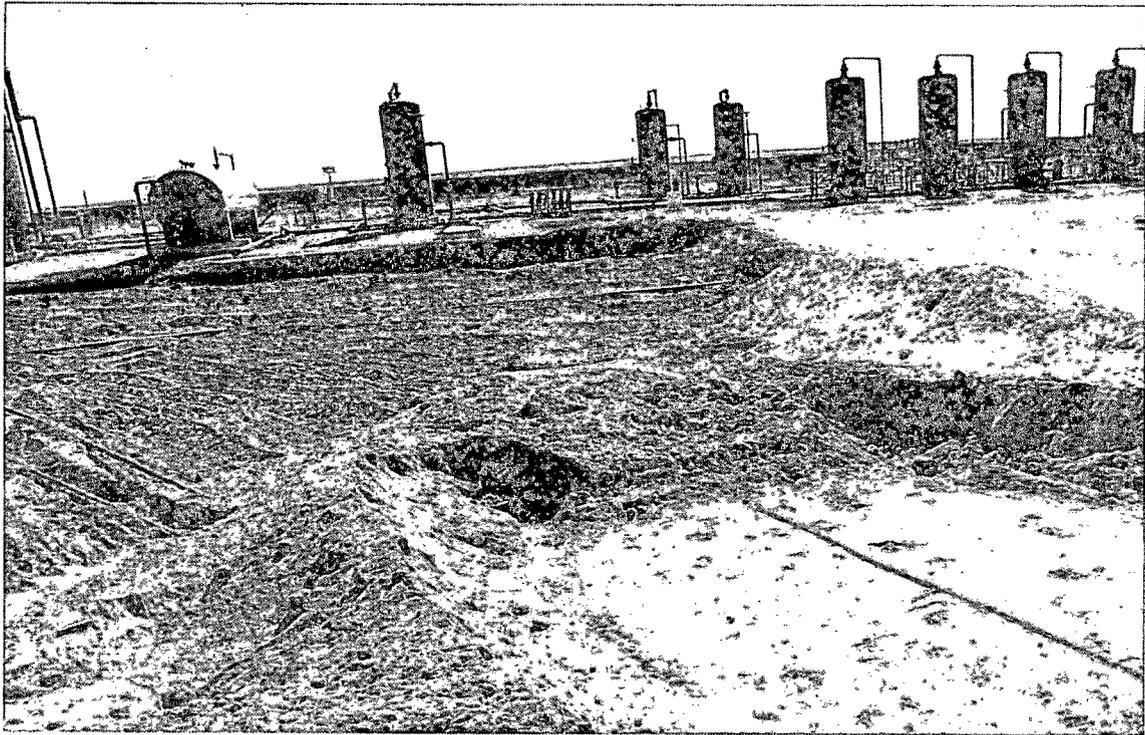
James Ranch Unit #36 Tank Battery - Advancement of Soil Boring SB-1



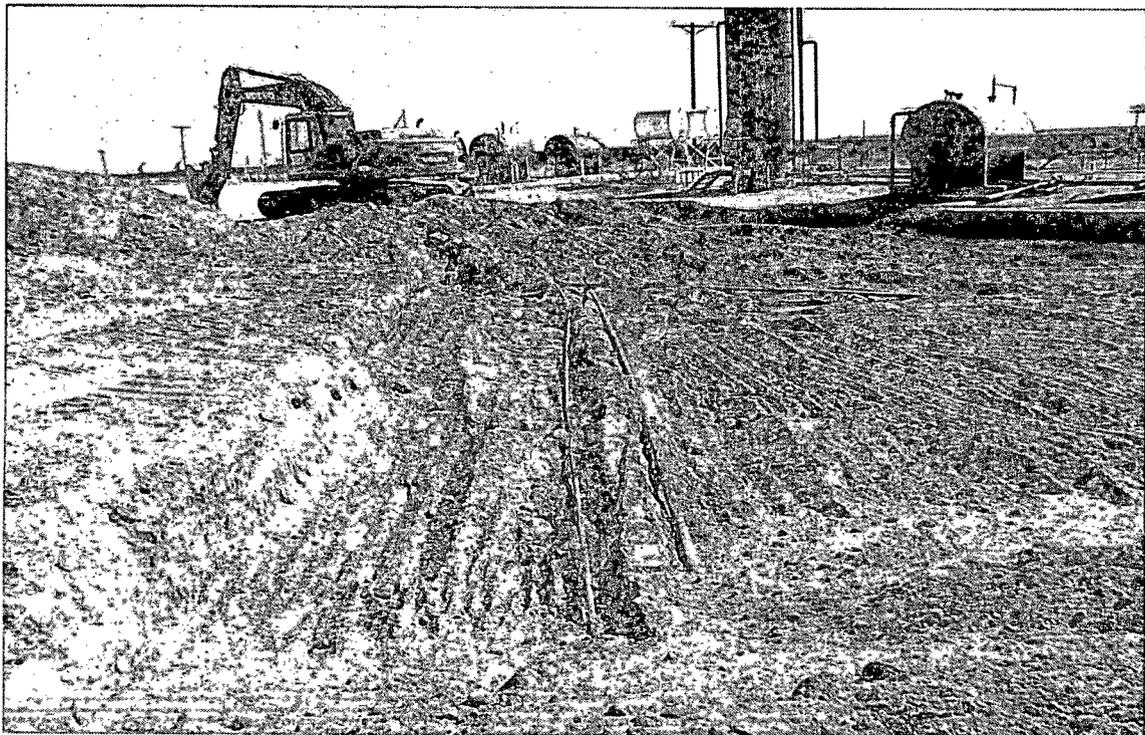
James Ranch Unit #36 Tank Battery - Advancement of Soil Boring SB-4



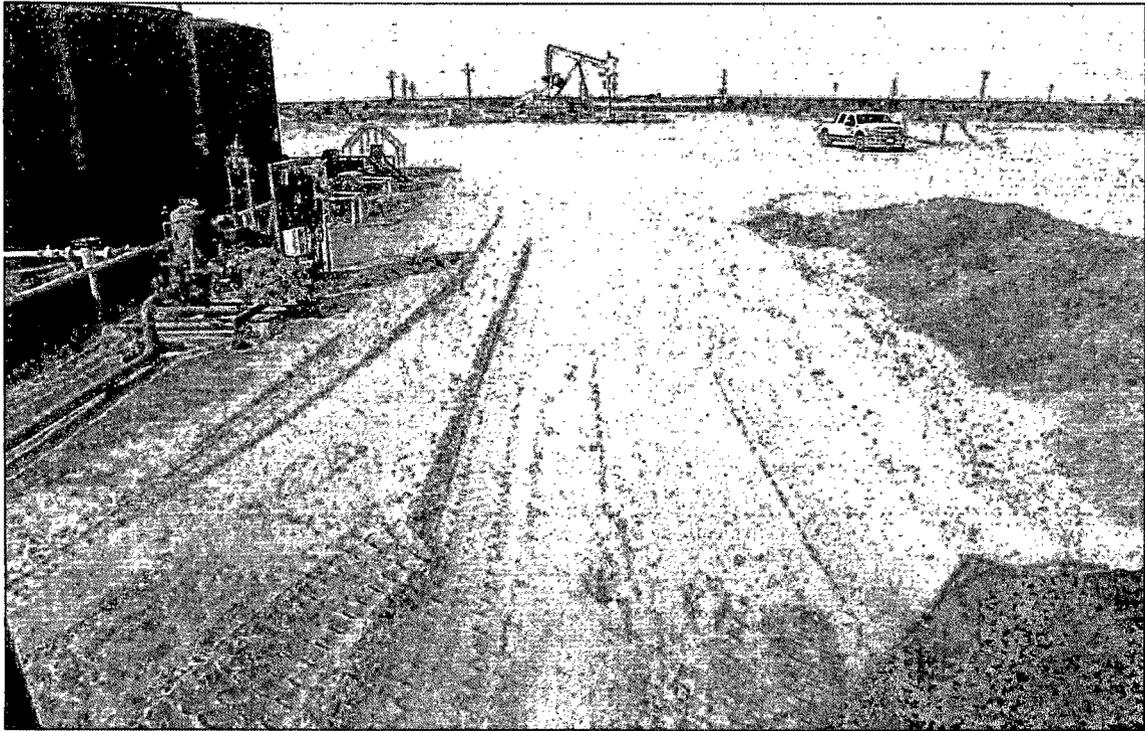
James Ranch Unit #36 Tank Battery - Hudson Federal Battery Excavation



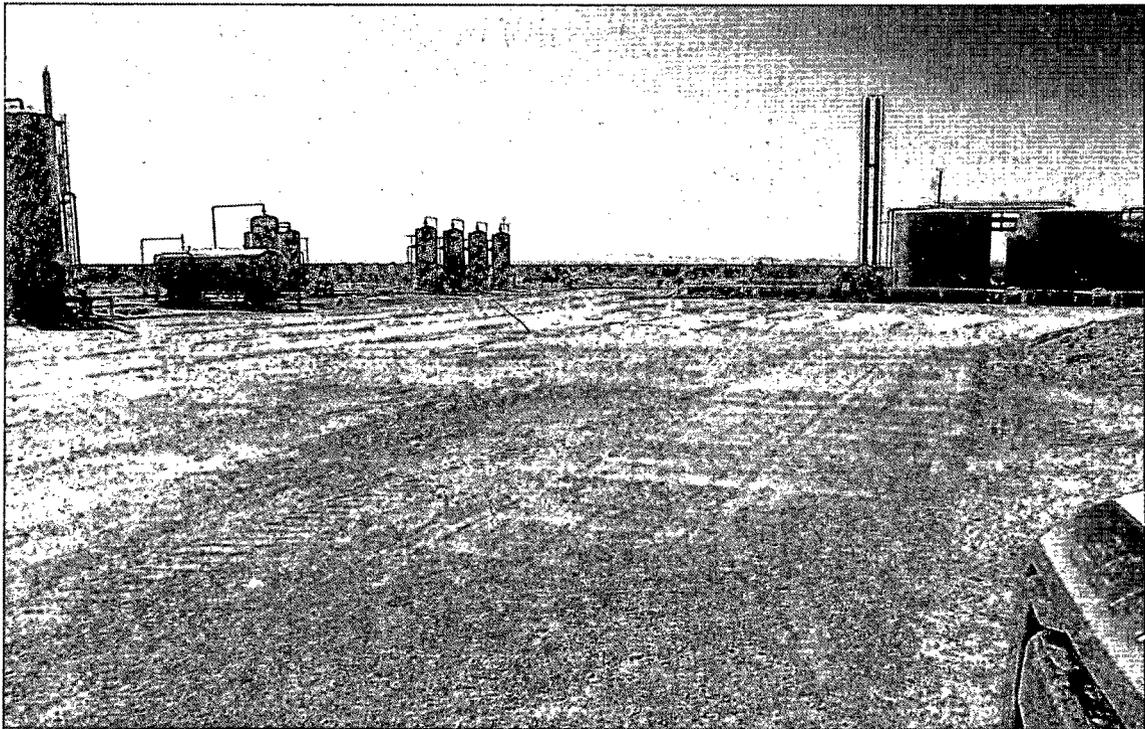
James Ranch Unit #36 Tank Battery - Hudson Federal Battery Excavation



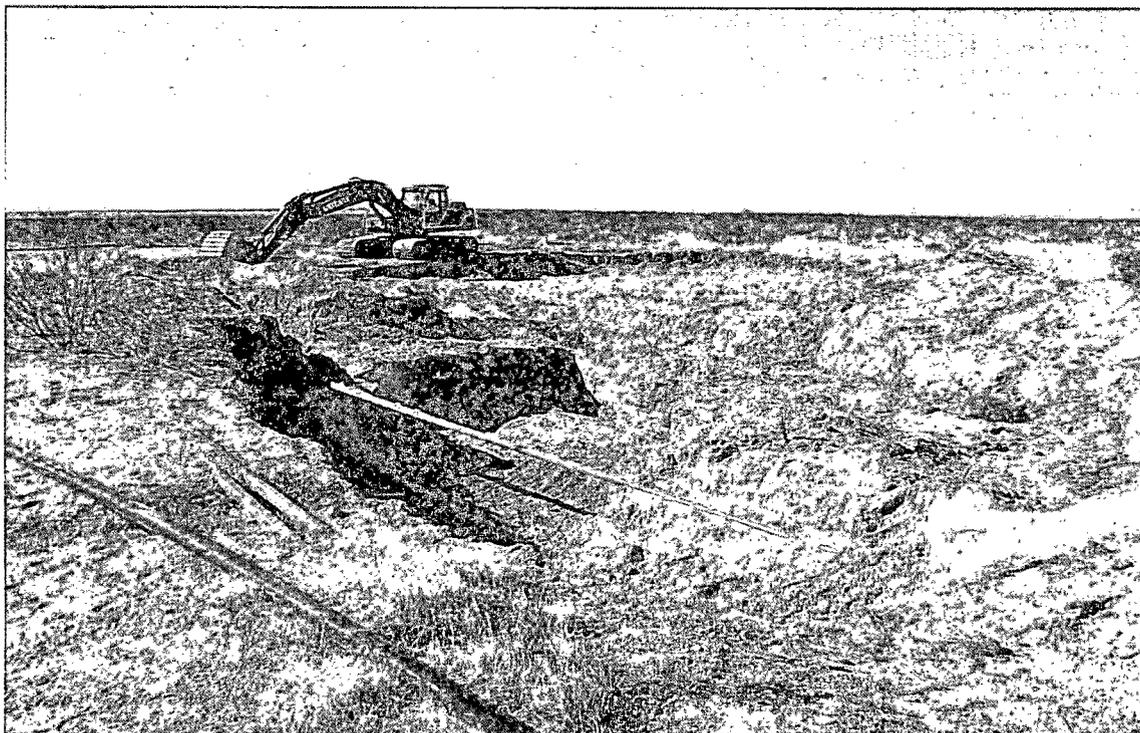
James Ranch Unit #36 Tank Battery - Hudson Federal Battery Excavation



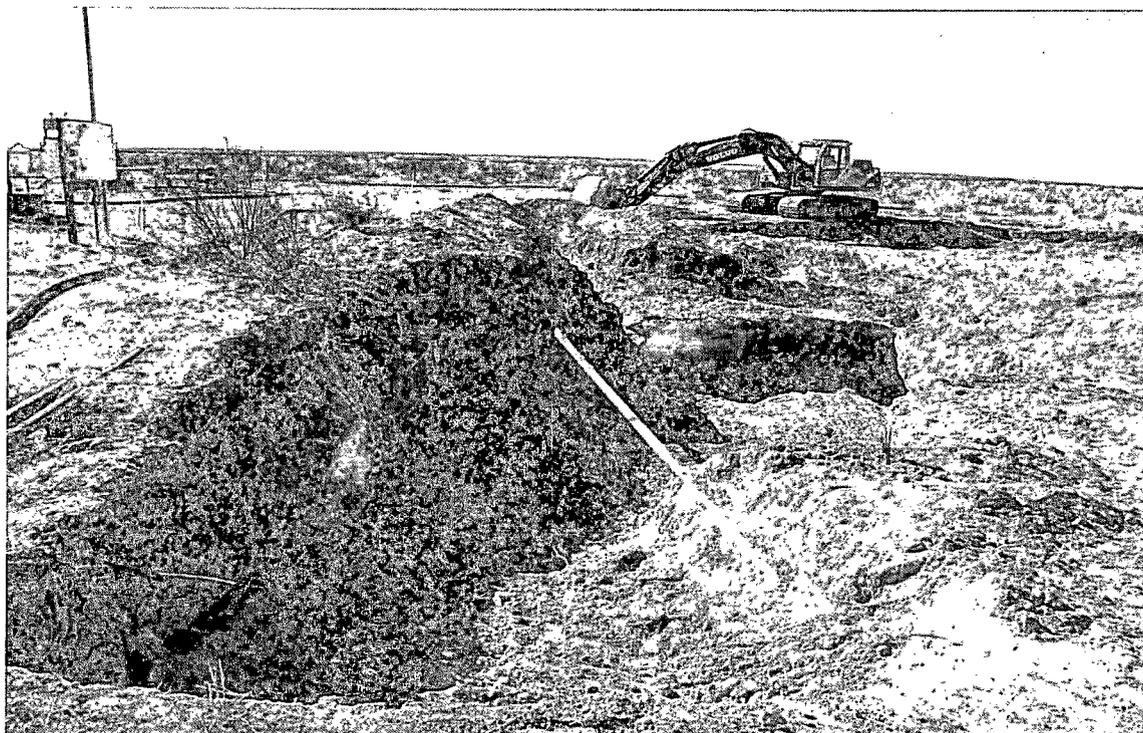
James Ranch Unit #36 Tank Battery - Hudson Federal Battery Excavation (During Backfilling)



James Ranch Unit #36 Tank Battery - Hudson Federal Battery Excavation
(Following Backfilling)



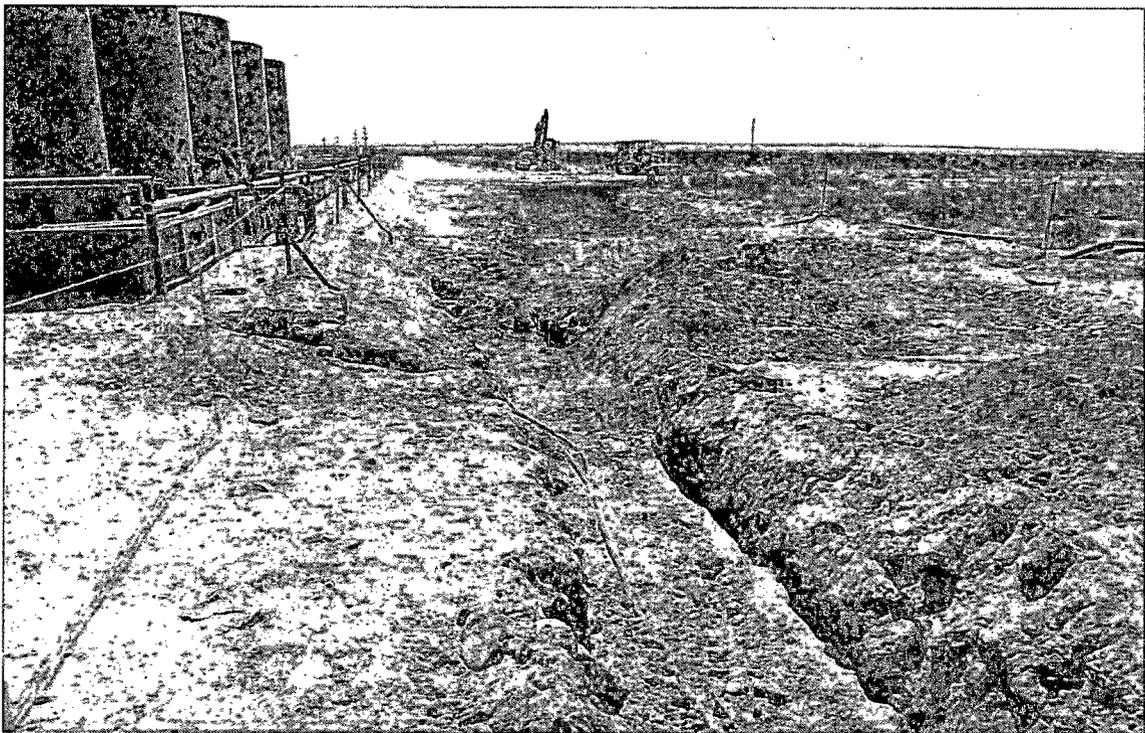
James Ranch Unit #36 Tank Battery - Pooling Area Excavation at Hudson Federal Battery



James Ranch Unit #36 Tank Battery - Pooling Area Excavation at Hudson Federal Battery



James Ranch Unit #36 Tank Battery - Pooling Area Excavation at Hudson Federal Battery
(Following Backfilling)



James Ranch Unit #36 Tank Battery - Excavation
(Following Installation of Steel Containment Area)

Appendix C
Soil Boring Logs

Soil Boring SB-1

Depth Below Ground Surface	Soil Column	Chloride Field Test	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description	Boring SB-1
0				None	None	0' - 2' - Tan fine sand; caliche	Date Drilled <u>July 31, 2012</u>
5		(7.4)		None	None	2' - 5' - Basin fine sand; caliche	Thickness of Bentonite Seal <u>50 Ft</u>
10		(11.7)		None	None	5' - 8' - Tan fine sand; sandstone	Depth of Exploratory Boring <u>50 Ft bgs</u>
15		11.2		None	None	8' - 13' - Red fine sand	Depth to Groundwater _____
20		17.8		None	None	13' - 15' - Tan fine sand	Ground Water Elevation _____
25		(720) (1.1)		None	None	15' - 36' - Dark red fine sand; sandstone w/ clay	▼ Indicates the PSH level measured on _____
30				None	None		▼ Indicates the groundwater level measured on _____
35				None	None		○ Indicates samples selected for Laboratory Analysis.
40		564		None	None		PID Head-space reading in ppm obtained with a photo-ionization detector.
45		(160)		None	None	36' - 50' - Red silty sand; silty clay	
50	(112)		None	None			

Completion Notes

- 1.) The soil boring was advanced on date using air rotary drilling techniques.
- 2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Soil Boring SB-1

BOPCO, LP
James Ranch Unit #36 Tank Battery
Eddy County, New Mexico
NMOCD Reference #: 2RP-1204



Basin Environmental Service Technologies, LLC
3100 Plains Hwy.
Lovington, NM 88260

Prep By: BJA

Checked By: BRB

May 20, 2013

Soil Boring SB-2

Depth Below Ground Surface	Soil Column	Chloride Field Test	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description	Boring SB-2	
0			(9.8)	None	None	0' - 1' - Tan fine sand; caliche	Date Drilled <u>July 31, 2012</u>	
5			(776)	(1.1)	None	None	1' - 14' - Tan fine sand; sandstone	Thickness of Bentonite Seal <u>25 Ft</u>
10			280	1.8	None	None	14' - 16' - Red fine sand	Depth of Exploratory Boring <u>25 Ft bgs</u>
15			(136)	(2.6)	None	None	16' - 25' - Tan fine sand; cemented sandstone	Depth to Groundwater _____
20			(216)		None	None		Ground Water Elevation _____
25								

- ▼ Indicates the PSH level measured on _____
- ▼ Indicates the groundwater level measured on _____
- Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

- 1.) The soil boring was advanced on date using air rotary drilling techniques.
- 2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Soil Boring SB-2

BOPCO, LP
James Ranch Unit #36 Tank Battery
Eddy County, New Mexico
NMOCD Reference #: 2RP-1204



Basin Environmental Service Technologies, LLC
3100 Plains Hwy.
Lovington, NM 88260

Prep By: BJA	Checked By: BRB
May 20, 2013	

Soil Boring SB-3

Depth Below Ground Surface	Soil Column	Chloride Field Test	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description	Boring SB-3
0			(0.2)	None	None	0' - 1' - Tan fine sand; caliche	Date Drilled <u>July 31, 2012</u>
5			(720)	(0.0)	None	1' - 9' - Tan fine sand; sandstone	Thickness of Bentonite Seal <u>20 FT</u>
10			(316)	(0.1)	None	9' - 18' - Bridge fine sand; sandstone	Depth of Exploratory Boring <u>20 Ft bgs</u>
15			(216)	(0.4)	None	18' - 20' - Red silty sand; sandstone	Depth to Groundwater _____
20							Ground Water Elevation _____

 Indicates the PSH level measured on _____
 Indicates the groundwater level measured on _____
 Indicates samples selected for Laboratory Analysis.
 PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

- 1.) The soil boring was advanced on date using air rotary drilling techniques.
- 2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Soil Boring SB-3

BOPCO, LP
 James Ranch Unit #36 Tank Battery
 Eddy County, New Mexico
 NMOCD Reference #: 2RP-1204



Basin Environmental Service Technologies, LLC
 3100 Plains Hwy.
 Lovington, NM 88260

Prep By: BJA	Checked By: BRB
May 20, 2013	

Soil Boring SB-4

Depth Below Ground Surface	Soil Column	Chloride Field Test	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description	Boring SB-4
0				None	None	0' - 2' - Backfill	Date Drilled <u>July 31, 2012</u>
5		(0.1)	None	None	2' - 8' - Tan fine sand	Thickness of Bentonite Seal <u>25 Ft</u>	
10		(0.3)	None	None	8' - 9' - Tan fine sand; sandstone 9' - 11' - Pink fine sand; sandstone	Depth of Exploratory Boring <u>25 Ft bgs</u>	
15		(904) (0.9)	None	None	11' - 17' - Tan fine sand; sandstone	Depth to Groundwater _____	
20		(316) (0.0)	None	None	17' - 20' - Rose silty sand; sandstone	Ground Water Elevation _____	
25		(216) (0.1)	None	None	20' - 25' - Tan silty sand; sandstone		

 Indicates the PSH level measured on _____
 Indicates the groundwater level measured on _____
 Indicates samples selected for Laboratory Analysis.
 PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

- 1.) The soil boring was advanced on date using air rotary drilling techniques.
- 2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Soil Boring SB-4

BOPCO, LP
 James Ranch Unit #36 Tank Battery
 Eddy County, New Mexico
 NMOCD Reference #: 2RP-1204



Basin Environmental Service Technologies, LLC
 3100 Plains Hwy.
 Lovington, NM 88260

Prep By: BJA

Checked By: BRB

May 20, 2013

Appendix D

Permits



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
620 E. Greene St.
Carlsbad, NM 88220-6292

In Reply Refer To:

3162.4 (NM-080)

NMNM02884B, NMLC061705B

July 5, 2012

NM Office of the State Engineer

Attn: Bill Duemling

1900 W. Second St.

Roswell, NM 88201

Re: NMNM02884B; James Ranch Unit #36 (3001527686)
1980' FNL & 1860' FEL (SW/NE) Section 1, T22S-R30E
Latitude: 32.335615, Longitude: -103.832117
Eddy County, New Mexico

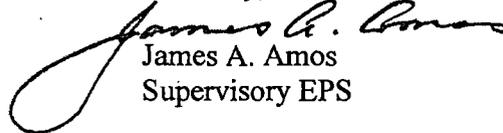
NMLC061705B; Poker Lake Unit #78 (3001527536)
660' FNL & 660' FEL (NE/NE) Section 25, T24S-R30E
Latitude: 32.19467, Longitude: -103.82830
Eddy County, New Mexico

Gentlemen:

The above well locations have had recent spill events related to oil and gas operations on the above referenced well locations. In order to fully delineate the impacted sites, a drilling unit will be needed to complete the delineation. The Bureau of Land Management (land owner) authorizes the use of a drilling unit to accomplish the full delineation of the site.

If you have any questions contact Jim Amos, at 575-234-5909.

Sincerely,


James A. Amos
Supervisory EPS

Scott A. Verhines, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 507137
File Nbr: C 03559

Jul. 12, 2012

BEN ARGUIJO (BASIN ENVIRONMENTAL)
BOPCO, LP
522 WEST MERMOD
CARLSBAD, NM 88220

Greetings:

Enclosed is your copy of the above numbered permit that has been approved subject to the conditions set forth on the approval page. In accordance with the conditions of approval, the well can only be tested for 10 cumulative days, and the well is to be plugged on or before 07/31/2013, unless a permit to use the water is acquired from this office.

A Well Record & Log (OSE Form wr-20) shall be filed in this office within twenty (20) days after completion of drilling, but no later than 07/31/2013.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us or will be mailed upon request.

Sincerely,

A handwritten signature in cursive script, appearing to read "Bill Duemling".

Bill Duemling
(575) 622-6521

Enclosure

explore

F C-3559

NEW MEXICO OFFICE OF THE STATE ENGINEER



APPLICATION FOR PERMIT TO DRILL A WELL WITH NO CONSUMPTIVE USE OF WATER



(check applicable box):

For fees, see State Engineer website: <http://www.ose.state.nm.us/>

2-31725
2012 JUL 10 A 10:31
STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO

Purpose:	<input type="checkbox"/> Pollution Control And / Or Recovery	<input type="checkbox"/> Geo-Thermal
<input checked="" type="checkbox"/> Exploratory	<input type="checkbox"/> Construction Site De-Watering	<input type="checkbox"/> Other (Describe):
<input type="checkbox"/> Monitoring	<input type="checkbox"/> Mineral De-Watering	
A separate permit will be required to apply water to beneficial use.		
<input type="checkbox"/> Temporary Request - Requested Start Date: 6/28/2012		Requested End Date: 6/28/2013
Plugging Plan of Operations Submitted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

1. APPLICANT(S)

Name: BOPCO, LP	Name:
Contact or Agent: <input type="checkbox"/> check here if Agent <input checked="" type="checkbox"/> Ben J. Arguijo (Basin Environmental)	Contact or Agent: <input type="checkbox"/> check here if Agent <input checked="" type="checkbox"/>
Mailing Address: 522 W. Mermod	Mailing Address:
City: Carlsbad	City:
State: NM Zip Code: 88220	State: Zip Code:
Phone: (432)556-8730 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell Phone (Work):	Phone: <input type="checkbox"/> Home <input type="checkbox"/> Cell Phone (Work):
E-mail (optional): TASavoie@BassPet.com bjarguijo@basinenv.com	E-mail (optional):

2012 JUL 2 8 08 TE

FOR OSE INTERNAL USE

Application for Permit, Form wr-07, Rev 4/12/12

File Number: C-3559	Trm Number: 507137
Trans Description (optional): EXPL	
Sub-Basin: C	
PCW LOG Due Date: 07/31/2013	

2. WELL(S) Describe the well(s) applicable to this application.

2-31725

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).
 District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

NM State Plane (NAD83) (Feet) UTM (NAD83) (Meters) Lat/Long (WGS84) (to the nearest 1/10th of second)
 NM West Zone Zone 12N
 NM East Zone Zone 13N
 NM Central Zone

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: - Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
SB-1	32.335815 32° 20' 8.2141"	-103.832117 -103° 49' 55.621"	Unit Letter "G" (SW/NE), Section 1, Township 22 South, Range 30 East 23
SB-2	32.335815	-103.832117	Unit Letter "G" (SW/NE), Section 1, Township 22 South, Range 30 East 23
SB-3	32.335815	-103.832117	Unit Letter "G" (SW/NE), Section 1, Township 22 South, Range 30 East 23
SB-4	32.335815	-103.832117	Unit Letter "G" (SW/NE), Section 1, Township 22 South, Range 30 East 23
SB-5	32.335815	-103.832117	Unit Letter "G" (SW/NE), Section 1, Township 22 South, Range 30 East 23

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 - POD Descriptions)
 Additional well descriptions are attached: Yes No If yes, how many _____

Other description relating well to common landmarks, streets, or other: See attached Site Location Map.

Well is on land owned by: US Bureau Of Land Management

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? Yes No
 If yes, how many _____

Approximate depth of well (feet): 50.00 Outside diameter of well casing (inches): 0.00

Driller Name: Straub Corporation Driller License Number: WD1478

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

Up to five (5) soil borings will be drilled on-site to investigate the vertical extent of contamination following a crude oil and produced water release at BOPCO's James Ranch Unit #36 site. The exact number, location(s), and depth(s) of the soil bore(s) will be determined on the drilling date by field-screens using a chloride test kit and/or Photo-Ionization Detector. Due to the depth to water at the location (approximately 170 feet below ground surface), it is unlikely that monitor wells will be required.

JUL 10 A 10:32
 ENGINEER OFFICE

FOR USE IN THE FIELD

File Number: C-3559 Trn Number: 507137

4. **SPECIFIC REQUIREMENTS:** The applica. must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

2-31725

<p>Exploratory: <input checked="" type="checkbox"/> Include a description of any proposed pump test, if applicable.</p>	<p>Pollution Control and/or Recovery: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> The method of measurement of water produced and discharged.</p>	<p>Construction De-Watering: <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of.</p>	<p>Mine De-Watering: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. <input type="checkbox"/> The method of measurement of water diverted.</p>
<p>Monitoring: <input type="checkbox"/> Include the reason for the monitoring well, and, <input type="checkbox"/> The duration of the planned monitoring.</p>	<p><input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.</p>	<p>Geo-Thermal: <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The amount of water to be diverted and re-injected for the project, <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.</p>	<p><input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.</p>

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Ben J. Arguijo _____
 Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

[Signature]
 Applicant Signature

 Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

approved partially approved denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 12th day of July 20 12, for the State Engineer,

Scott A. Verhines, P.E. _____, State Engineer

By: [Signature]
 Signature

Bill Duemling
 Print

Title: Carlsbad Basin Supervisor
 Print

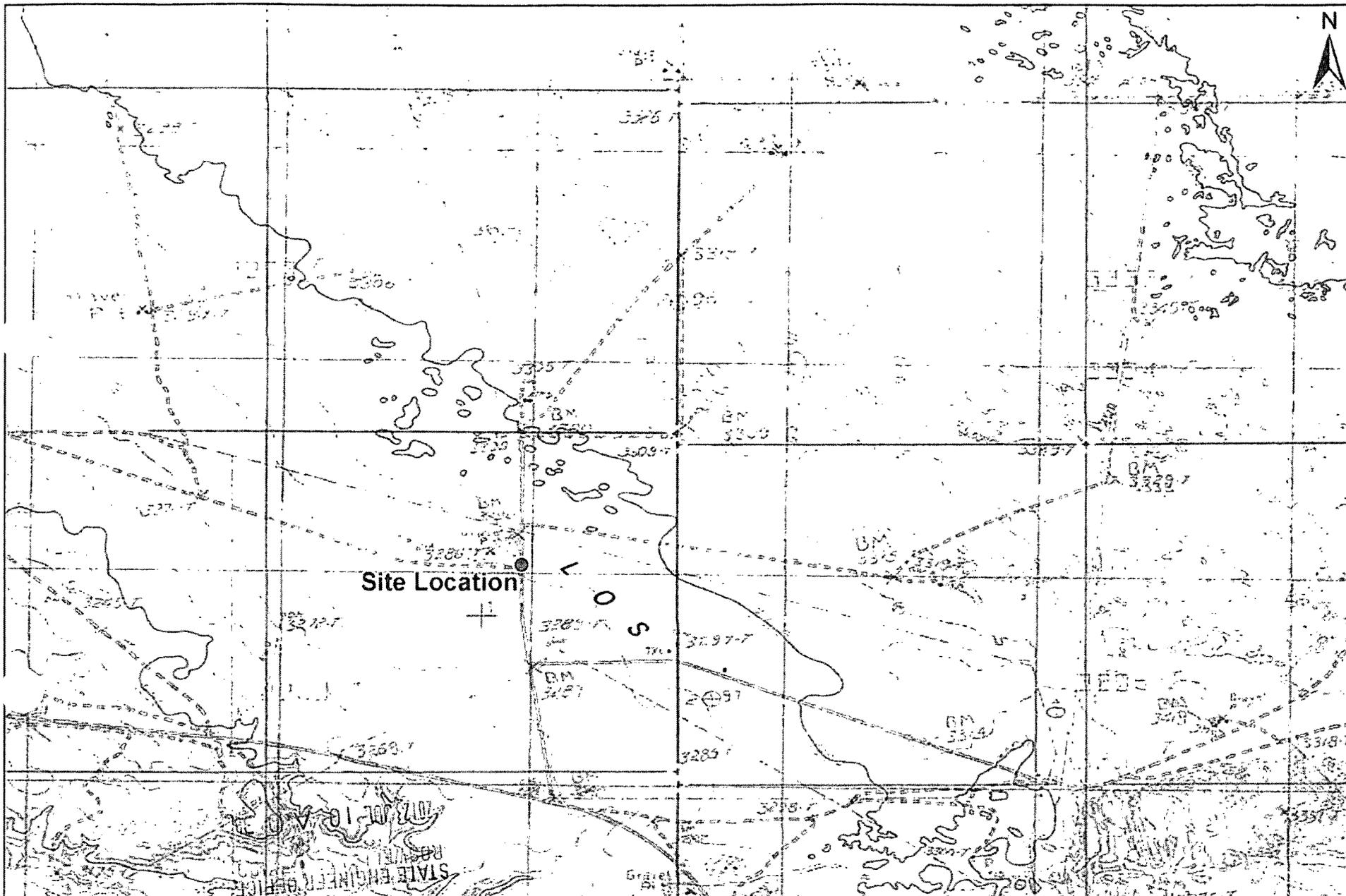
2012 JUL 10 A 10:35
 STATE ENGINEER OFFICE
 ROSWELL, N.M.

FOR USE INTERNAL USE

Application for Permit, Form wr-07

File Number: <u>C-3659</u>	Trm Number: <u>507137</u>
----------------------------	---------------------------

2012 JUL 2 AM 8 31



2-31725

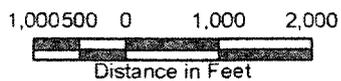


Figure 1
Site Location Map
BOPCO, LP
James Ranch Unit #36
Eddy County, New Mexico



Basin Environmental Service Technologies, LLC
 3100 Plains Hwy.
 Lovington, NM 88260

Drawn By: BJA	Checked By: BRB
June 28, 2012	Scale: 1" = 2000'

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- 1A Depth of the well shall not exceed the thickness of the valley fill.
- 4 No water shall be appropriated and beneficially used under this permit.
- B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated.
- C Driller's well record must be filed with the State Engineer within 20 days after the well is drilled or driven. Well record forms will be provided by the State Engineer upon request.
- LOG The Point of Diversion C 03559 POD1 must be completed and the Well Log filed on or before 07/31/2013.
- LOG The Point of Diversion C 03559 POD2 must be completed and the Well Log filed on or before 07/31/2013.
- LOG The Point of Diversion C 03559 POD3 must be completed and the Well Log filed on or before 07/31/2013.
- LOG The Point of Diversion C 03559 POD4 must be completed and the Well Log filed on or before 07/31/2013.
- LOG The Point of Diversion C 03559 POD5 must be completed and the Well Log filed on or before 07/31/2013.

NO WATER SHALL BE DIVERTED FROM THESE BOREHOLES EXCEPT FOR TESTING PURPOSES, WHICH SHALL NOT EXCEED TEN (10) CUMULATIVE DAYS, AND BOREHOLES SHALL BE PLUGGED OR CAPPED ON OR BEFORE 07/31/2013.

THE BOREHOLES SHALL BE CONSTRUCTED, MAINTAINED, AND OPERATED THAT EACH WATER SHALL BE CONFINED TO THE AQUIFER IN WHICH IT IS ENCOUNTERED.

Trn Desc: C 03559:EXPLORATORY BORE HOLES

File Number: C 03559

Trn Number: 507137

Locator Tool Report

General Information:

Application ID: 30 Date: 07-11-2012 Time: 17:19:34

WR File Number: C-03559
Purpose: POINT OF DIVERSION

Applicant First Name: BOPCO LP & BASIN ENVIRONMENTAL (JAMES RANCH AREA)
Applicant Last Name: POLLUTION TEST BORE HOLES (5 TOTAL)

GW Basin: CARLSBAD
County: EDDY

Critical Management Area Name(s): NONE
Special Condition Area Name(s): NONE
Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

NW 1/4 of SE 1/4 of SW 1/4 of NE 1/4 of Section 01, Township 23S, Range 30E.

Coordinate System Details:

Geographic Coordinates:

Latitude: 32 Degrees 20 Minutes 8.2 Seconds N
Longitude: 103 Degrees 49 Minutes 55.6 Seconds W

Universal Transverse Mercator Zone: 13N

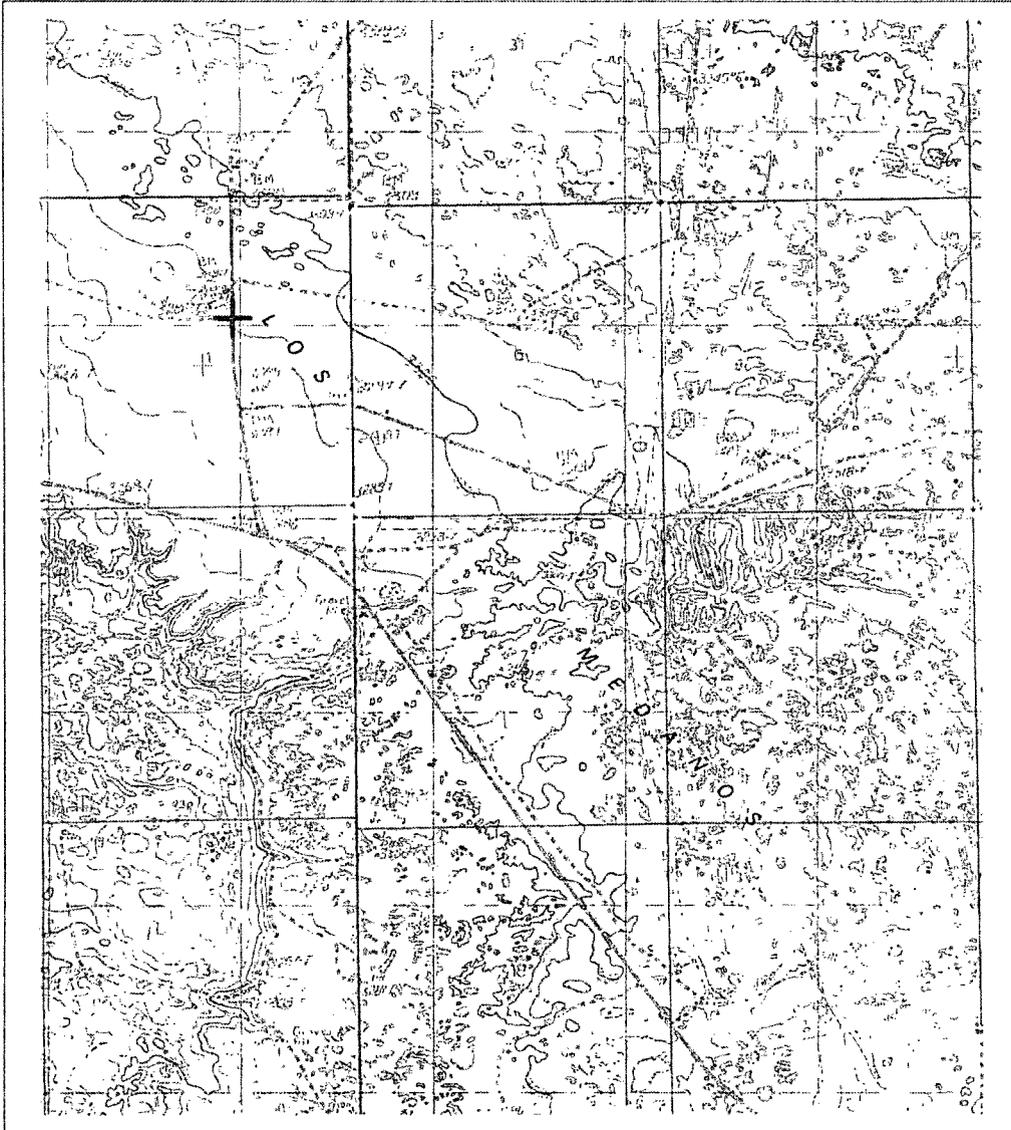
NAD 1983(92) (Meters)	N: 3,578,236	E: 609,912
NAD 1983(92) (Survey Feet)	N: 11,739,596	E: 2,001,021
NAD 1927 (Meters)	N: 3,578,034	E: 609,961
NAD 1927 (Survey Feet)	N: 11,738,934	E: 2,001,180

State Plane Coordinate System Zone: New Mexico East

NAD 1983(92) (Meters)	N: 148,191	E: 212,184
NAD 1983(92) (Survey Feet)	N: 486,191	E: 696,141
NAD 1927 (Meters)	N: 148,173	E: 199,632
NAD 1927 (Survey Feet)	N: 486,131	E: 654,958

NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report



WR File Number: C-03559

Scale: 1:37,354

Northing/Easting: UTM83(92) (Meter): N: 3,578,236

E: 609,912

Northing/Easting: SPCS83(92) (Feet): N: 486,191

E: 696,141

GW Basin: Carlsbad

Appendix E
Laboratory Analytical Reports



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

June 19, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: JAMES RANCH UNIT 36 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/14/12 9:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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".

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: 06/14/2012
 Reported: 06/19/2012
 Project Name: JAMES RANCH UNIT 36 BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/13/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SAMPLE 1 (H201339-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	17400	16.0	06/18/2012	ND	448	112	400	3.64		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1040	50.0	06/15/2012	ND	185	92.4	200	1.98		
DRO >C10-C28	6970	50.0	06/15/2012	ND	194	97.2	200	3.12		
EXT DRO >C28-C35	1250	50.0	06/15/2012	ND						

Surrogate: 1-Chlorooctane 185 % 65.2-140
 Surrogate: 1-Chlorooctadecane 250 % 63.6-154

Sample ID: SAMPLE 2 (H201339-02)

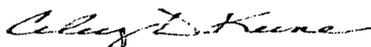
Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	06/18/2012	ND	448	112	400	3.64		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	352	50.0	06/15/2012	ND	185	92.4	200	1.98		
DRO >C10-C28	8550	50.0	06/15/2012	ND	194	97.2	200	3.12		
EXT DRO >C28-C35	1660	50.0	06/15/2012	ND						

Surrogate: 1-Chlorooctane 142 % 65.2-140
 Surrogate: 1-Chlorooctadecane 289 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	06/14/2012	Sampling Date:	06/13/2012
Reported:	06/19/2012	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SAMPLE 3 (H201339-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	06/18/2012	ND	448	112	400	3.64		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	06/15/2012	ND	185	92.4	200	1.98		
DRO >C10-C28	476	50.0	06/15/2012	ND	194	97.2	200	3.12		
EXT DRO >C28-C35	268	50.0	06/15/2012	ND						

Surrogate: 1-Chlorooctane 110 % 65.2-140
 Surrogate: 1-Chlorooctadecane 146 % 63.6-154

Sample ID: SAMPLE 4 (H201339-04)

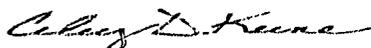
Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3920	16.0	06/18/2012	ND	448	112	400	3.64		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/15/2012	ND	185	92.4	200	1.98		
DRO >C10-C28	111	10.0	06/15/2012	ND	194	97.2	200	3.12		
EXT DRO >C28-C35	52.6	10.0	06/15/2012	ND						

Surrogate: 1-Chlorooctane 105 % 65.2-140
 Surrogate: 1-Chlorooctadecane 128 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 06/14/2012
 Reported: 06/19/2012
 Project Name: JAMES RANCH UNIT 36 BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/13/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SAMPLE 5 (H201339-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11400	16.0	06/18/2012	ND	448	112	400	3.64		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	611	50.0	06/15/2012	ND	185	92.4	200	1.98		
DRO >C10-C28	9170	50.0	06/15/2012	ND	194	97.2	200	3.12		
EXT DRO >C28-C35	1970	50.0	06/15/2012	ND						

Surrogate: 1-Chlorooctane 162 % 65.2-140

Surrogate: 1-Chlorooctadecane 319 % 63.6-154

Sample ID: SAMPLE 5 2' (H201339-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2880	16.0	06/18/2012	ND	448	112	400	3.64		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1130	50.0	06/15/2012	ND	185	92.4	200	1.98		
DRO >C10-C28	7690	50.0	06/15/2012	ND	194	97.2	200	3.12		
EXT DRO >C28-C35	1390	50.0	06/15/2012	ND						

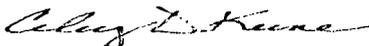
Surrogate: 1-Chlorooctane 197 % 65.2-140

Surrogate: 1-Chlorooctadecane 261 % 63.6-154

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* = 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:	06/14/2012	Sampling Date:	06/13/2012
Reported:	06/19/2012	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SAMPLE 5 4' (H201339-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7680	16.0	06/18/2012	ND	448	112	400	3.64		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	931	50.0	06/15/2012	ND	185	92.4	200	1.98		
DRO >C10-C28	6120	50.0	06/15/2012	ND	194	97.2	200	3.12		
EXT DRO >C28-C35	1080	50.0	06/15/2012	ND					S-06	

Surrogate: 1-Chlorooctane	178 %	65.2-140
Surrogate: 1-Chlorooctadecane	222 %	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: 06/14/2012
 Reported: 06/19/2012
 Project Name: JAMES RANCH UNIT 36 BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/13/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SAMPLE 5 6' (H201339-08)

BTEX 8021B		mg/kg		Analyzed By: ZZZ				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/18/2012	ND	1.93	96.5	2.00	7.45		
Toluene*	0.165	0.050	06/18/2012	ND	1.94	97.1	2.00	6.42		
Ethylbenzene*	0.740	0.050	06/18/2012	ND	1.96	98.2	2.00	6.95		
Total Xylenes*	2.80	0.150	06/18/2012	ND	5.91	98.6	6.00	6.73		

Surrogate: 4-Bromofluorobenzene (PIC) 188 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16000	16.0	06/18/2012	ND	448	112	400	3.64		

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	233	50.0	06/15/2012	ND	185	92.4	200	1.98		
DRO >C10-C28	5120	50.0	06/15/2012	ND	194	97.2	200	3.12		
EXT DRO >C28-C35	1010	50.0	06/15/2012	ND						

Surrogate: 1-Chlorooctane 142 % 65.2-140

Surrogate: 1-Chlorooctadecane 224 % 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:	06/14/2012	Sampling Date:	06/13/2012
Reported:	06/19/2012	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SAMPLE 6 (H201339-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14200	16.0	06/18/2012	ND	448	112	400	3.64		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	867	50.0	06/15/2012	ND	185	92.4	200	1.98		
DRO >C10-C28	13800	50.0	06/15/2012	ND	194	97.2	200	3.12		
EXT DRO >C28-C35	2820	50.0	06/15/2012	ND					S-06	

Surrogate: 1-Chlorooctane 193 % 65.2-140

Surrogate: 1-Chlorooctadecane 291 % 63.6-154

Sample ID: SAMPLE 7 (H201339-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	26800	16.0	06/18/2012	ND	448	112	400	3.64		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	230	50.0	06/15/2012	ND	185	92.4	200	1.98		
DRO >C10-C28	9690	50.0	06/15/2012	ND	194	97.2	200	3.12		
EXT DRO >C28-C35	2060	50.0	06/15/2012	ND						

Surrogate: 1-Chlorooctane 149 % 65.2-140

Surrogate: 1-Chlorooctadecane 328 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

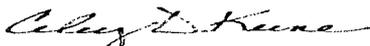
Notes and Definitions

- 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.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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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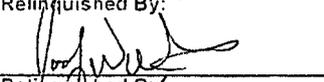
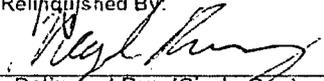
Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Basin Environmental Service Technologies, LLC		BILL TO				ANALYSIS REQUEST																		
Project Manager: Ben J. Arquiijo		P.O. #:																						
Address: P.O. Box 301		Company: BOPCO, LP																						
City: Lovington State: NM Zip: 88260		Attn: Tony Savoie																						
Phone #: (575) 396-2378 Fax #: (575) 396-1429		Address: 522 w. Metmod																						
Project #: Project Owner: BOPCO, LP		City: Carlsbad																						
Project Name: James Ranch Unit 36 Battery		State: NM Zip: 88220																						
Project Location:		Phone #: (432) 556-8730																						
Sampler Name: Jody Walters		Fax #:																						
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	IRABOR (COMF.	# CONTAINERS	MATRIX					PRESEV	SAMPLING														
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE/ICE / COOL	OTHER	DATE	TIME	Chlorides	BOISM	BTEX								
H201339																								
1	Sample 1	G	1		X					X		6-13-12	8:30	X	X									
2	Sample 2	G	1		X					X		6-13-12	8:35	X	X									
3	Sample 3	G	1		X					X		6-13-12	8:40	X	X									
4	Sample 4	G	1		X					X		6-13-12	8:45	X	X									
5	Sample 5	G	1		X					X		6-13-12	9:00	X	X									
6	Sample 5. 2'	G	1		X					X		6-13-12	9:05	X	X									
7	Sample 5. 4'	G	1		X					X		6-13-12	9:10	X	X									
8	Sample 5. 6'	G	1		X					X		6-13-12	9:15	X	X	X								
9	Sample 6	G	1		X					X		6-13-12	9:20	X	X									
10	Sample 7	G	1		X					X		6-13-12	9:30	X	X									

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Relinquished By: 	Date: 6-14-12 Time: 0700	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No [Add'l Phone #:
Relinquished By: 	Date: 6-14-12 Time: 0700	Received By: 	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No [Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) 	REMARKS:
			Please email results to pm@basinenv.com & TASavoie@BassPet.com jwl@basinenv.com

#26

June 29, 2012

BEN J. ARGUJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: JAMES RANCH UNIT 36 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/28/12 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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/ga/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: 06/28/2012
 Reported: 06/29/2012
 Project Name: JAMES RANCH UNIT 36 BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 06/27/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SAMPLE #8 (H201453-01)

BTEX 8021B		mg/kg		Analyzed By: ZZ				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.250	0.250	06/28/2012	ND	2.06	103	2.00	8.92		
Toluene*	0.867	0.250	06/28/2012	ND	2.08	104	2.00	10.2		
Ethylbenzene*	3.29	0.250	06/28/2012	ND	2.12	106	2.00	10.4		
Total Xylenes*	7.97	0.750	06/28/2012	ND	6.42	107	6.00	11.3		

Surrogate: 4-Bromofluorobenzene (PID) 213 % 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	13200	16.0	06/28/2012	ND	416	104	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	999	100	06/28/2012	ND	166	82.9	200	1.48		
DRO >C10-C28	15100	100	06/28/2012	ND	168	83.9	200	0.998		
EXT DRO >C28-C35	4410	100	06/28/2012	ND						

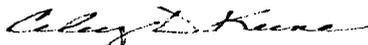
Surrogate: 1-Chlorooctane 159 % 65.2-140

Surrogate: 1-Chlorooctadecane 352 % 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:	06/28/2012	Sampling Date:	06/27/2012
Reported:	06/29/2012	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SAMPLE #9 (H201453-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	17600	16.0	06/28/2012	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	11.4	10.0	06/28/2012	ND	166	82.9	200	1.48		
DRO >C10-C28	662	10.0	06/28/2012	ND	168	83.9	200	0.998		
EXT DRO >C28-C35	185	10.0	06/28/2012	ND						

Surrogate: 1-Chlorooctane 71.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.4 % 63.6-154

Sample ID: SAMPLE #10 (H201453-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8400	16.0	06/28/2012	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	<50.0	50.0	06/28/2012	ND	166	82.9	200	1.48		
DRO >C10-C28	335	50.0	06/28/2012	ND	168	83.9	200	0.998		
EXT DRO >C28-C35	308	50.0	06/28/2012	ND						

Surrogate: 1-Chlorooctane 68.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.0 % 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: 06/28/2012
 Reported: 06/29/2012
 Project Name: JAMES RANCH UNIT 36 BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 06/27/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SAMPLE #11 (H201453-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6880	16.0	06/28/2012	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	<50.0	50.0	06/28/2012	ND	166	82.9	200	1.48		
DRO >C10-C28	1330	50.0	06/28/2012	ND	168	83.9	200	0.998		
EXT DRO >C28-C35	478	50.0	06/28/2012	ND						
<i>Surrogate: 1-Chlorooctane</i>	79.4 %	65.2-140								
<i>Surrogate: 1-Chlorooctadecane</i>	121 %	63.6-154								

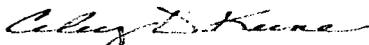
Sample ID: SAMPLE #12 (H201453-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16400	16.0	06/28/2012	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	06/28/2012	ND	166	82.9	200	1.48		
DRO >C10-C28	443	10.0	06/28/2012	ND	168	83.9	200	0.998		
EXT DRO >C28-C35	144	10.0	06/28/2012	ND						
<i>Surrogate: 1-Chlorooctane</i>	68.3 %	65.2-140								
<i>Surrogate: 1-Chlorooctadecane</i>	95.8 %	63.6-154								

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* = Accredited Analyte

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Celestine 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:	06/28/2012	Sampling Date:	06/27/2012
Reported:	06/29/2012	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SAMPLE #13 (H201453-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6240	16.0	06/28/2012	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	80.2	50.0	06/28/2012	ND	166	82.9	200	1.48		
DRO >C10-C28	4200	50.0	06/28/2012	ND	168	83.9	200	0.998		
EXT DRO >C28-C35	941	50.0	06/28/2012	ND						
<i>Surrogate: 1-Chlorooctane</i>	<i>97.1 %</i>	<i>65.2-140</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>177 %</i>	<i>63.6-154</i>								

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Celey D. Keene, Lab Director/Quality Manager

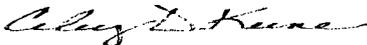
Notes and Definitions

- 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.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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



August 07, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: JAMES RANCH UNIT 36 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/02/12 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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, appearing to read "Celey D. Keene", written in a cursive style.

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: 08/02/2012
 Reported: 08/07/2012
 Project Name: JAMES RANCH UNIT 36 BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 07/31/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

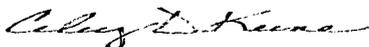
Sample ID: SB - 1 @ 5' (H201804-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	08/03/2012	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	08/03/2012	ND	185	92.4	200	0.862		
DRO >C10-C28	<10.0	10.0	08/03/2012	ND	183	91.3	200	1.23		
EXT DRO >C28-C35	<10.0	10.0	08/03/2012	ND						
Surrogate: 1-Chlorooctane	88.1 %	65.2-140								
Surrogate: 1-Chlorooctadecane	88.1 %	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:	08/02/2012	Sampling Date:	07/31/2012
Reported:	08/07/2012	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SB - 1 @ 10' (H201804-02)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2012	ND	1.70	85.2	2.00	7.84		
Toluene*	<0.050	0.050	08/07/2012	ND	1.83	91.3	2.00	6.14		
Ethylbenzene*	<0.050	0.050	08/07/2012	ND	1.87	93.5	2.00	6.07		
Total Xylenes*	<0.150	0.150	08/07/2012	ND	5.64	94.0	6.00	5.24		

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 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	304	16.0	08/03/2012	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	08/03/2012	ND	185	92.4	200	0.862		
DRO >C10-C28	<10.0	10.0	08/03/2012	ND	183	91.3	200	1.23		
EXT DRO >C28-C35	<10.0	10.0	08/03/2012	ND						

Surrogate: 1-Chlorooctane 95.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.0 % 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: 08/02/2012
 Reported: 08/07/2012
 Project Name: JAMES RANCH UNIT 36 BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 07/31/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB - 1 @ 25' (H201804-03)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2012	ND	1.70	85.2	2.00	7.84		
Toluene*	<0.050	0.050	08/07/2012	ND	1.83	91.3	2.00	6.14		
Ethylbenzene*	<0.050	0.050	08/07/2012	ND	1.87	93.5	2.00	6.07		
Total Xylenes*	<0.150	0.150	08/07/2012	ND	5.64	94.0	6.00	5.24		

Surrogate: 4-Bromofluorobenzene (PIC) 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	896	16.0	08/03/2012	ND	400	100	400	0.00		

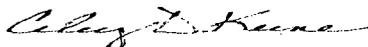
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/03/2012	ND	185	92.4	200	0.862		
DRO >C10-C28	<10.0	10.0	08/03/2012	ND	183	91.3	200	1.23		
EXT DRO >C28-C35	<10.0	10.0	08/03/2012	ND						

Surrogate: 1-Chlorooctane 96.4 % 65.2-140
Surrogate: 1-Chlorooctadecane 92.8 % 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:	08/02/2012	Sampling Date:	07/31/2012
Reported:	08/07/2012	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SB - 1 @ 35' (H201804-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	08/03/2012	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	08/03/2012	ND	185	92.4	200	0.862		
DRO >C10-C28	<10.0	10.0	08/03/2012	ND	183	91.3	200	1.23		
EXT DRO >C28-C35	<10.0	10.0	08/03/2012	ND						

Surrogate: 1-Chlorooctane 96.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.7 % 63.6-154

Sample ID: SB - 1 @ 45' (H201804-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/03/2012	ND	400	100	400	0.00		

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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: 08/02/2012
 Reported: 08/07/2012
 Project Name: JAMES RANCH UNIT 36 BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 07/31/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB - 1 @ 50' (H201804-06)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2012	ND	1.70	85.2	2.00	7.84		
Toluene*	<0.050	0.050	08/07/2012	ND	1.83	91.3	2.00	6.14		
Ethylbenzene*	<0.050	0.050	08/07/2012	ND	1.87	93.5	2.00	6.07		
Total Xylenes*	<0.150	0.150	08/07/2012	ND	5.64	94.0	6.00	5.24		

Surrogate: 4-Bromofluorobenzene (PIC) 99.9 % 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	128	16.0	08/03/2012	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	08/03/2012	ND	185	92.4	200	0.862		
DRO >C10-C28	<10.0	10.0	08/03/2012	ND	183	91.3	200	1.23		
EXT DRO >C28-C35	<10.0	10.0	08/03/2012	ND						

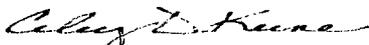
Surrogate: 1-Chlorooctane 87.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.5 % 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:	08/02/2012	Sampling Date:	07/31/2012
Reported:	08/07/2012	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

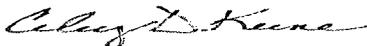
Sample ID: SB - 2 @ 5' (H201804-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	08/03/2012	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	08/03/2012	ND	185	92.4	200	0.862	
DRO >C10-C28	15.4	10.0	08/03/2012	ND	183	91.3	200	1.23	
EXT DRO >C28-C35	<10.0	10.0	08/03/2012	ND					
<i>Surrogate: 1-Chlorooctane</i>	<i>93.0 %</i>	<i>65.2-140</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>92.1 %</i>	<i>63.6-154</i>							

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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:	08/02/2012	Sampling Date:	07/31/2012
Reported:	08/07/2012	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SB - 2 @ 10' (H201804-08)

BTEX 80218		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2012	ND	1.70	85.2	2.00	7.84		
Toluene*	<0.050	0.050	08/07/2012	ND	1.83	91.3	2.00	6.14		
Ethylbenzene*	<0.050	0.050	08/07/2012	ND	1.87	93.5	2.00	6.07		
Total Xylenes*	<0.150	0.150	08/07/2012	ND	5.64	94.0	6.00	5.24		

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 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	944	16.0	08/03/2012	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	08/03/2012	ND	185	92.4	200	0.862		
DRO >C10-C28	<10.0	10.0	08/03/2012	ND	183	91.3	200	1.23		
EXT DRO >C28-C35	<10.0	10.0	08/03/2012	ND						

Surrogate: 1-Chlorooctane 87.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.0 % 63.6-154

Sample ID: SB - 2 @ 20' (H201804-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	08/03/2012	ND	400	100	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
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 Fax To: (575) 396-1429

Received:	08/02/2012	Sampling Date:	07/31/2012
Reported:	08/07/2012	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SB - 2 @ 25' (H201804-10)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2012	ND	1.70	85.2	2.00	7.84	
Toluene*	<0.050	0.050	08/07/2012	ND	1.83	91.3	2.00	6.14	
Ethylbenzene*	<0.050	0.050	08/07/2012	ND	1.87	93.5	2.00	6.07	
Total Xylenes*	<0.150	0.150	08/07/2012	ND	5.64	94.0	6.00	5.24	

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	192	16.0	08/03/2012	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	08/03/2012	ND	185	92.4	200	0.862	
DRO >C10-C28	<10.0	10.0	08/03/2012	ND	183	91.3	200	1.23	
EXT DRO >C28-C35	<10.0	10.0	08/03/2012	ND					

Surrogate: 1-Chlorooctane 95.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.5 % 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:	08/02/2012	Sampling Date:	07/31/2012
Reported:	08/07/2012	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SB - 3 @ 5' (H201804-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	08/03/2012	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	08/03/2012	ND	185	92.4	200	0.862		
DRO >C10-C28	<10.0	10.0	08/03/2012	ND	183	91.3	200	1.23		
EXT DRO >C28-C35	<10.0	10.0	08/03/2012	ND						
Surrogate: 1-Chlorooctane	90.9 %	65.2-140								
Surrogate: 1-Chlorooctadecane	90.4 %	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:	08/02/2012	Sampling Date:	07/31/2012
Reported:	08/07/2012	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SB - 3 @ 10' (H201804-12)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2012	ND	1.70	85.2	2.00	7.84	
Toluene*	<0.050	0.050	08/07/2012	ND	1.83	91.3	2.00	6.14	
Ethylbenzene*	<0.050	0.050	08/07/2012	ND	1.87	93.5	2.00	6.07	
Total Xylenes*	<0.150	0.150	08/07/2012	ND	5.64	94.0	6.00	5.24	

Surrogate: 4-Bromofluorobenzene (PIE) 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	736	16.0	08/03/2012	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	08/03/2012	ND	185	92.4	200	0.862	
DRO >C10-C28	<10.0	10.0	08/03/2012	ND	183	91.3	200	1.23	
EXT DRO >C28-C35	<10.0	10.0	08/03/2012	ND					

Surrogate: 1-Chlorooctane 95.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.7 % 63.6-154

Sample ID: SB - 3 @ 15' (H201804-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/03/2012	ND	400	100	400	0.00	

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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:	08/02/2012	Sampling Date:	07/31/2012
Reported:	08/07/2012	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SB - 3 @ 20' (H201804-14)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2012	ND	1.70	85.2	2.00	7.84		
Toluene*	<0.050	0.050	08/07/2012	ND	1.83	91.3	2.00	6.14		
Ethylbenzene*	<0.050	0.050	08/07/2012	ND	1.87	93.5	2.00	6.07		
Total Xylenes*	<0.150	0.150	08/07/2012	ND	5.64	94.0	6.00	5.24		

Surrogate: 4-Bromofluorobenzene (PIC) 96.0 % 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	208	16.0	08/03/2012	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	08/03/2012	ND	185	92.4	200	0.862		
DRO >C10-C28	<10.0	10.0	08/03/2012	ND	183	91.3	200	1.23		
EXT DRO >C28-C35	<10.0	10.0	08/03/2012	ND						

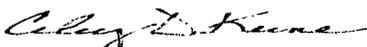
Surrogate: 1-Chlorooctane 97.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.8 % 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:	08/02/2012	Sampling Date:	07/31/2012
Reported:	08/07/2012	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SB - 4 @ 5' (H201804-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	08/03/2012	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	08/03/2012	ND	185	92.3	200	0.279		
DRO >C10-C28	<10.0	10.0	08/03/2012	ND	195	97.6	200	5.50		
EXT DRO >C28-C35	<10.0	10.0	08/03/2012	ND						
<i>Surrogate: 1-Chlorooctane</i>	<i>95.3 %</i>	<i>65.2-140</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>94.3 %</i>	<i>63.6-154</i>								

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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:	08/02/2012	Sampling Date:	07/31/2012
Reported:	08/07/2012	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SB - 4 @ 10' (H201804-16)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2012	ND	1.70	85.2	2.00	7.84		
Toluene*	<0.050	0.050	08/07/2012	ND	1.83	91.3	2.00	6.14		
Ethylbenzene*	<0.050	0.050	08/07/2012	ND	1.87	93.5	2.00	6.07		
Total Xylenes*	<0.150	0.150	08/07/2012	ND	5.64	94.0	6.00	5.24		

Surrogate: 4-Bromofluorobenzene (PIC) 100 % 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	720	16.0	08/03/2012	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	08/03/2012	ND	185	92.3	200	0.279		
DRO >C10-C28	<10.0	10.0	08/03/2012	ND	195	97.6	200	5.50		
EXT DRO >C28-C35	<10.0	10.0	08/03/2012	ND						

Surrogate: 1-Chlorooctane 91.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.5 % 63.6-154

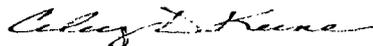
Sample ID: SB - 4 @ 15' (H201804-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	08/06/2012	ND	416	104	400	3.92		

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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:	08/02/2012	Sampling Date:	07/31/2012
Reported:	08/07/2012	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SB - 4 @ 20' (H201804-18)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/06/2012	ND	416	104	400	3.92	

Sample ID: SB - 4 @ 25' (H201804-19)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2012	ND	1.70	85.2	2.00	7.84	
Toluene*	<0.050	0.050	08/07/2012	ND	1.83	91.3	2.00	6.14	
Ethylbenzene*	<0.050	0.050	08/07/2012	ND	1.87	93.5	2.00	6.07	
Total Xylenes*	<0.150	0.150	08/07/2012	ND	5.64	94.0	6.00	5.24	

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/06/2012	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	08/03/2012	ND	185	92.3	200	0.279	
DRO >C10-C28	<10.0	10.0	08/03/2012	ND	195	97.6	200	5.50	
EXT DRO >C28-C35	<10.0	10.0	08/03/2012	ND					

Surrogate: 1-Chlorooctane 90.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.7 % 63.6-154

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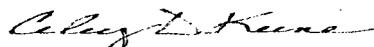
Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Basin Environmental Service Technologies, LLC		BILL TO				ANALYSIS REQUEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Project Manager: Ben J. Arquijo		P.O. #:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Address: P.O. Box 301		Company: BOPCO, LP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
City: Lovington State: NM Zip: 88260		Attn: Tony Savoie																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Phone #: (575) 396-2378 Fax #: (575) 396-1429		Address: 522 W. Merrick																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Project #: Project Owner: BOPCO, LP		City: Carlsbad																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Project Name: James Ranch Unit #36 Battery		State: NM Zip: 88220																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Project Location: Eddy Co., NM		Phone #: (505) 556-8720																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Lab I.D.	Sample I.D.	GIRAB OR (C)OMP. # CONTAINERS	MATRIX													PRESERV.		SAMPLING		Chloride	BTEX	Mn	Pb	Cu	Zn	Cd	Cr	Ni	Mg	Ca	Fe	Al	K	Na	S	C	H	O	N	P	Cl	F	Br	I	As	Se	Te	Mo	Co	Ni	Cu	Zn	Cd	Cr	Mn	Pb	Hg	Ag	Au	Pt	Ba	Sr	Ca	Mg	K	Na	Cl	S	C	H	O	N	P	Fe	Al	Si	Ti	Zr	Hf	Ta	Nb	Sn	Sb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Fr	Ra	Ac	Th	Pa	U	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Dn	Rf	Db	Sg	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Basin Environmental Service Technologies, LLC				BILL TO				ANALYSIS REQUEST																			
Project Manager: Ben J. Arquijo				P.O. #:																							
Address: P.O. Box 391				Company: BOPCO, LP																							
City: Lovington		State: NM		Zip: 88260		Attn: Tony Savoie																					
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address: 522 W. Merrod																							
Project #:		Project Owner: BOPCO, LP		City: Carlsbad																							
Project Name: James Ranch Unit #36 Battery				State: NM				Zip: 88220																			
Project Location: Eddy Co., NM				Phone #: (432) 556-8730																							
Sampler Name:				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	G/RAB OR (COMPL.)	# CONTAINERS	MATRIX					PRESERV.		SAMPLING																
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	DATE	TIME													
11	SB-3 @ 5'	6	1			X				X	7/2/10	1340	X	X													
12	SB-3 @ 10'									X		1350		X	X												
13	SB-3 @ 15'											1400															
14	SB-3 @ 20'											1405		X	X												
15	SB-4 @ 5'											1420		X													
16	SB-4 @ 10'											1425		X	X												
17	SB-4 @ 15'											1430															
18	SB-4 @ 20'											1435															
19	SB-4 @ 25'											1440		X	X												

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Relinquished By:	Date: 8/2/10	Received By: Todd Benson	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1045		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		Please email results to pm@basinenv.com 1 TAS.vnie@BasinEnv.com	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	(Initials) 4/8		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

February 19, 2013

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: JAMES RANCH UNIT 36 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/13/13 15:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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, prominent initial 'C'.

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:	02/13/2013	Sampling Date:	02/13/2013
Reported:	02/19/2013	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SAMPLE #1 (H300413-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	02/18/2013	ND	448	112	400	0.00		

Sample ID: SAMPLE #2 (H300413-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	02/18/2013	ND	432	108	400	3.64		

Sample ID: SAMPLE #3 (H300413-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1230	16.0	02/18/2013	ND	432	108	400	3.64		

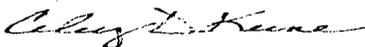
Sample ID: SAMPLE #4 (H300413-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	02/18/2013	ND	432	108	400	3.64		

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:	02/13/2013	Sampling Date:	02/13/2013
Reported:	02/19/2013	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SAMPLE #5 (H300413-05)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	02/18/2013	ND	432	108	400	3.64	

Sample ID: SAMPLE #6 (H300413-06)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	02/18/2013	ND	432	108	400	3.64	

Sample ID: SAMPLE #7 (H300413-07)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/18/2013	ND	432	108	400	3.64	

Sample ID: SAMPLE #8 (H300413-08)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/18/2013	ND	432	108	400	3.64	

Sample ID: SAMPLE #9 (H300413-09)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/18/2013	ND	432	108	400	3.64	

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* = 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:	02/13/2013	Sampling Date:	02/13/2013
Reported:	02/19/2013	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SAMPLE #10 (H300413-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1540	16.0	02/19/2013	ND	432	108	400	3.64		

Sample ID: SAMPLE #11 (H300413-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	02/19/2013	ND	432	108	400	3.64		

Sample ID: SAMPLE #12 (H300413-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/19/2013	ND	432	108	400	3.64		

Sample ID: SAMPLE #13 (H300413-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	02/19/2013	ND	432	108	400	3.64		

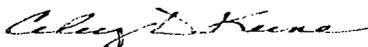
Sample ID: SAMPLE #14 (H300413-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	02/19/2013	ND	432	108	400	3.64		

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*=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:	02/13/2013	Sampling Date:	02/13/2013
Reported:	02/19/2013	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SAMPLE #15 (H300413-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	02/19/2013	ND	432	108	400	3.64		

Sample ID: SAMPLE #16 (H300413-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	02/19/2013	ND	432	108	400	3.64		

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Celey D. Keene, Lab Director/Quality Manager

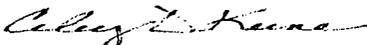
Notes and Definitions

- 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



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

March 14, 2013

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: JAMES RANCH UNIT 36 BATTERY POOLING AREA

Enclosed are the results of analyses for samples received by the laboratory on 03/12/13 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 on 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 initial 'C'.

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:	03/12/2013	Sampling Date:	03/11/2013
Reported:	03/14/2013	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY POOL I	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SAMPLE #1 (H300619-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	03/13/2013	ND	448	112	400	3.64		

Sample ID: SAMPLE #2 (H300619-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	03/13/2013	ND	432	108	400	3.64		

Sample ID: SAMPLE #3 (H300619-03)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/14/2013	ND	2.24	112	2.00	3.79		
Toluene*	<0.050	0.050	03/14/2013	ND	2.16	108	2.00	3.51		
Ethylbenzene*	<0.050	0.050	03/14/2013	ND	2.06	103	2.00	3.28		
Total Xylenes*	<0.150	0.150	03/14/2013	ND	6.28	105	6.00	3.46		
Total BTEX	<0.300	0.300	03/14/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 114 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/13/2013	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	

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* = 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:	03/12/2013	Sampling Date:	03/11/2013
Reported:	03/14/2013	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY POOLI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SAMPLE #3 (H300619-03)

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	03/13/2013	ND	209	105	200	2.42	
DRO >C10-C28	<10.0	10.0	03/13/2013	ND	208	104	200	3.91	
EXT DRO >C28-C35	<10.0	10.0	03/13/2013	ND					
<i>Surrogate: 1-Chlorooctane</i>		<i>87.7 %</i>	<i>65.2-140</i>						
<i>Surrogate: 1-Chlorooctadecane</i>		<i>107 %</i>	<i>63.6-154</i>						

Sample ID: SAMPLE #4 (H300619-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/13/2013	ND	432	108	400	3.64	

Sample ID: SAMPLE #5 (H300619-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	03/13/2013	ND	432	108	400	3.64	

Sample ID: SAMPLE #6 (H300619-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/13/2013	ND	432	108	400	3.64	

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*=Accredited Analyte

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

Received:	03/12/2013	Sampling Date:	03/11/2013
Reported:	03/14/2013	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY POOLI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SAMPLE #7 (H300619-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	03/13/2013	ND	432	108	400	3.64		

Sample ID: SAMPLE #8 (H300619-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/13/2013	ND	432	108	400	3.64		

Sample ID: SAMPLE #9 (H300619-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/13/2013	ND	432	108	400	3.64		

Sample ID: SAMPLE #10 (H300619-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/13/2013	ND	432	108	400	3.64		

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Received:	03/12/2013	Sampling Date:	03/11/2013
Reported:	03/14/2013	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY POOLI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SAMPLE #11 (H300619-11)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/14/2013	ND	2.24	112	2.00	3.79		
Toluene*	0.056	0.050	03/14/2013	ND	2.16	108	2.00	3.51		
Ethylbenzene*	<0.050	0.050	03/14/2013	ND	2.06	103	2.00	3.28		
Total Xylenes*	<0.150	0.150	03/14/2013	ND	6.28	105	6.00	3.46		
Total BTEX	<0.300	0.300	03/14/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 115 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/13/2013	ND	432	108	400	3.64		

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	03/13/2013	ND	209	105	200	2.42		
DRO >C10-C28	<10.0	10.0	03/13/2013	ND	208	104	200	3.91		
EXT DRO >C28-C35	<10.0	10.0	03/13/2013	ND						

Surrogate: 1-Chlorooctane 85.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Received:	03/12/2013	Sampling Date:	03/11/2013
Reported:	03/14/2013	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 36 BATTERY POOLI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SAMPLE #12 (H300619-12)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/13/2013	ND	432	108	400	3.64	

Sample ID: SAMPLE #13 (H300619-13)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/13/2013	ND	432	108	400	3.64	

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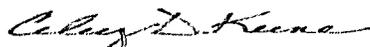
Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

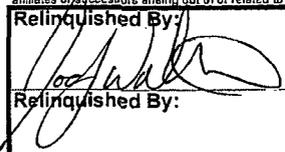
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:		BILL TO		ANALYSIS REQUEST												
Project Manager:		P.O. #:														
Address:		Company:														
City:	State:	Zip:	Attn:													
Phone #:	Fax #:	Address:														
Project #:	Project Owner:		City:													
Project Name:		State:	Zip:													
Project Location:		Phone #:														
Sampler Name:		Fax #:														
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		
H3DD0619																
	11 Sample # 11	G	1			Y						Y	3-11-13	9:20	X	X
	12 Sample # 12	G	1			X							3-11-13	9:25	X	
	13 Sample # 13	G	1			X							3-11-13	9:30	X	

Handwritten notes: CHLORIDES, 8015M, BTEX

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Relinquished By:	Date: 3-12-13	Received By: Jodi Henson	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 4:00		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>	(Initials)		
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

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