

| | DATE | DEPARTMENT | PREPARED BY |
|--|--------|--|-------------|
| C-141 ZRP-401 Site #1 Site Summary + Closure Data E-mail Correspondence Site Sketch " " | 4/7/15 | | T. Gay |
| SB-3 Data Initial Photos Drilling Photos Floor Pump 6/17/10 Liner Inst. 7/21/10 Backfill 7/22/10 Final Photos 9/20/10 Soil Chem Table | | | |
| | | | |
| | | NM OIL CONSERVATION ARTESIA DISTRICT APR 07 2015 | |
| | | RECEIVED | T. Gay |
| | | | |

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

RECEIVED
MAR 16 2010
NMOCD ARTESIA

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 Final Report

| | |
|---|----------------------------|
| Name of Company BOPCO, L.P. <i>3607137</i> | Contact Tony Savoie |
| Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 | Telephone No. 432-556-8730 |
| Facility Name Bass Federal 3 Well #4 "Release #1" | Facility Type E&P |

| | | |
|-----------------------|-----------------------|-----------|
| Surface Owner Federal | Mineral Owner Federal | Lease No. |
|-----------------------|-----------------------|-----------|

3001528736

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| <i>I</i> | 3 | 22S | 28E | <i>1980</i> | | <i>330</i> | | Eddy |

Latitude N 32.419741 Longitude W 104.071838

NATURE OF RELEASE

| | | |
|--|---|--|
| Type of Release: Produced water and crude oil | Volume of Release: 50 Bbbls of Produced water and 10 Bbbls of Crude oil | Volume Recovered: none |
| Source of Release: Above ground 2 3/8" flow line | Date and Hour of Occurrence: Unkown | Date and Hour of Discovery: 3/5/10 8:00 a.m. |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* The flow line delivering produced fluid from the well to the tank battery developed a leak, the well was shut in and a temporary repair clamp was placed on the affected area.

Describe Area Affected and Cleanup Action Taken.* The released fluid affected an area of approximately 2300 sq. ft of pasture land with heavily saturated soil, the fluid was too thick to remove with a vacuum truck, a backhoe was dispatched to the site and began to excavate and load the saturated soil/sludge. The excavated material was hauled to CRI for disposal. It was estimated that 1,232 cubic yards of soil/sludge was removed. The excavated area will be left open for sampling and further excavation as needed. The Site remediation for the produced water and crude oil spill will follow the NMOCD guidelines for leaks and spills.

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: <i>Tony Savoie</i> | OIL CONSERVATION DIVISION | |
| Printed Name: Tony Savoie | Approved by District Supervisor: <i>[Signature]</i> | Remediation Actions to be completed and Final C-141 submitted with confirmation analyses/documentation on or before the Expiration Date |
| Title: Waste Mgmt. & Remediation Specialist | Approval Date: <i>4-8-10</i> | Expiration Date: <i>12-8-10</i> |
| E-mail Address: TASavoie@BassPet.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 3/15/10 Phone: 432-556-8730 | Notify OCD 48 hours prior to obtaining samples where analyses are to be presented to OCD | <i>2RP-1401</i> |

DELINEATION REQUIRED until contamination reaches background levels or a site specific acceptable level. As warranted, a work plan may be required

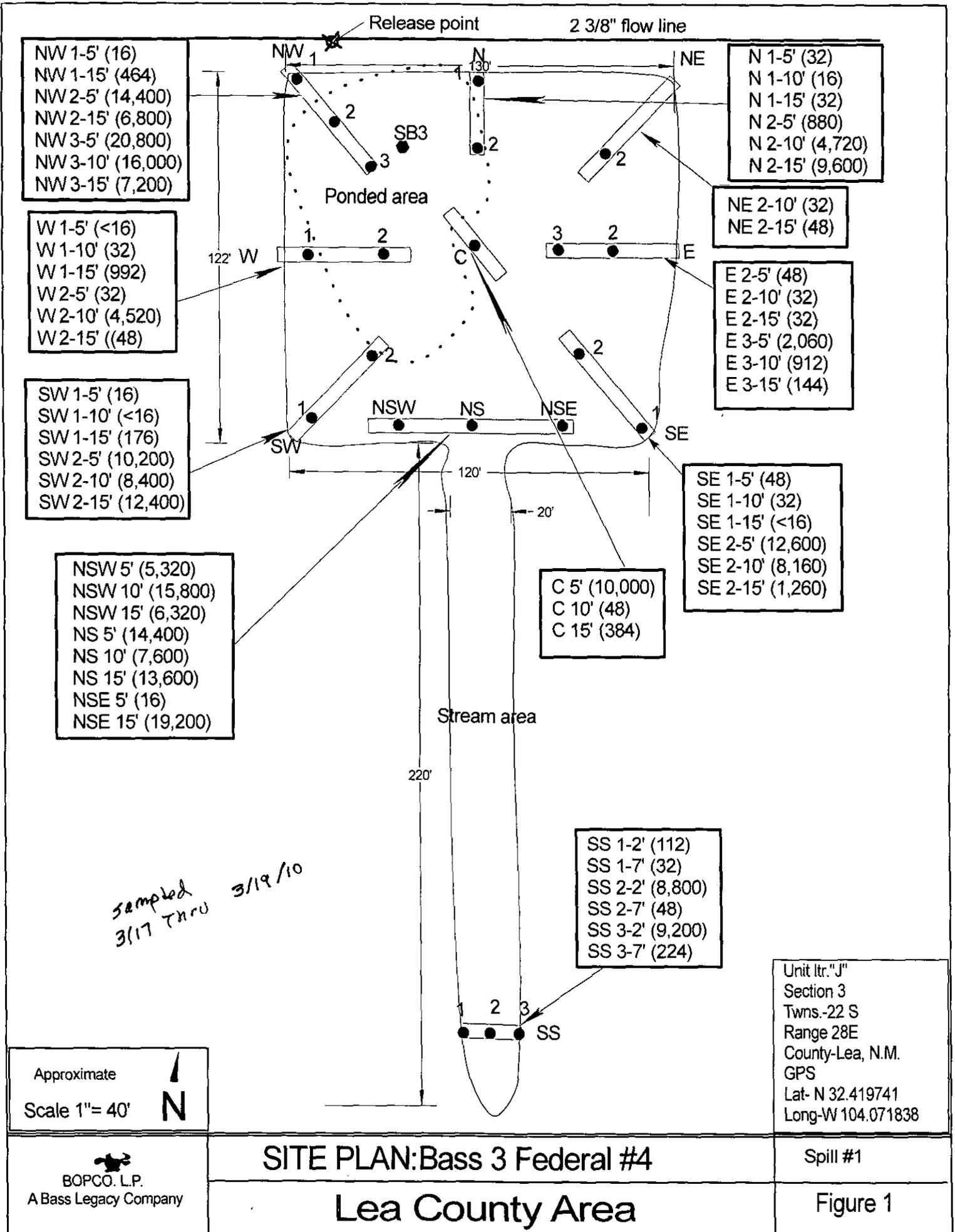
C-141 INFORMATION

* Attach Additional Sheets if Necessary

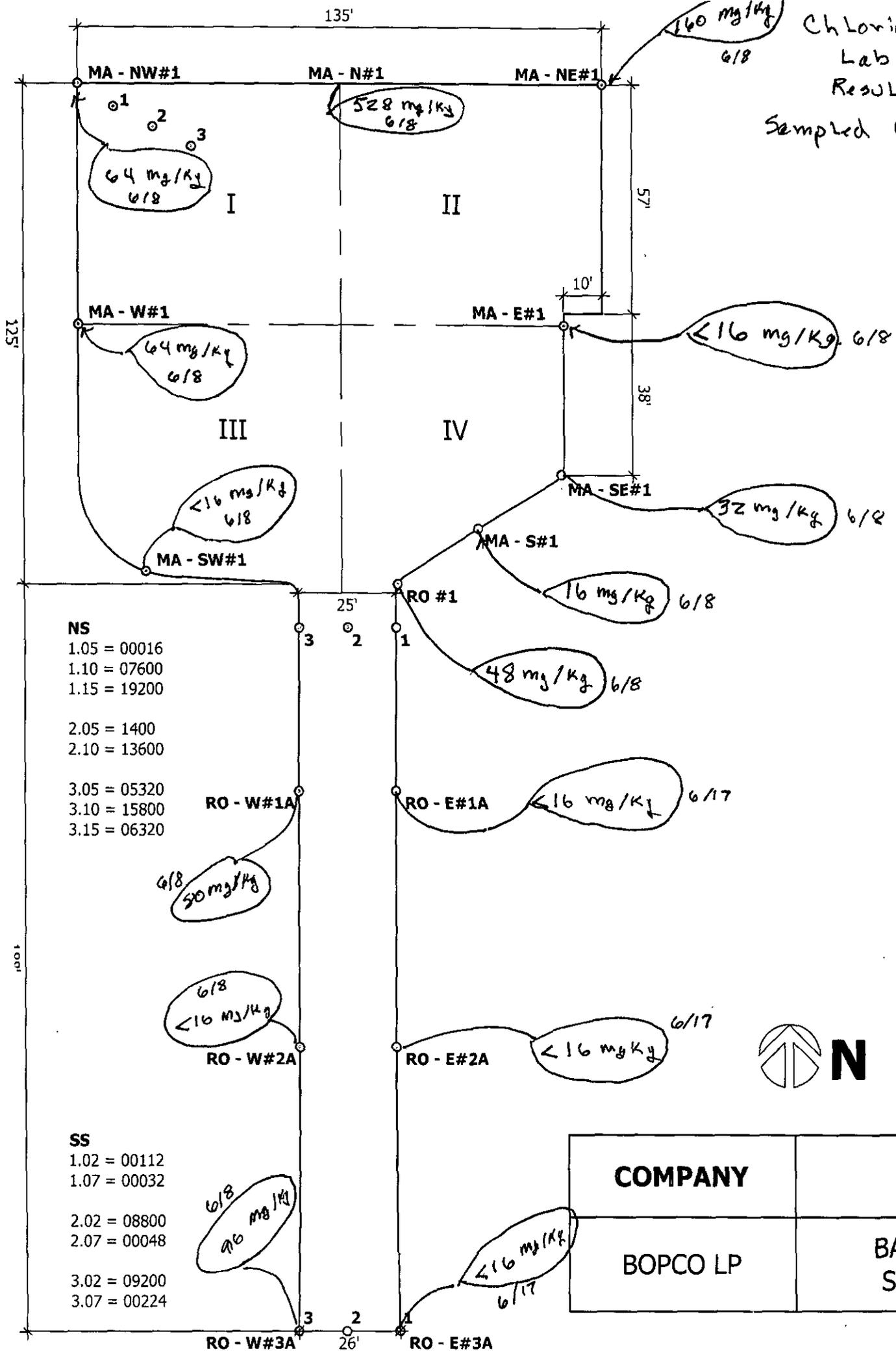
Savoie, Tony A.

From: Savoie, Tony A.
Sent: Tuesday, April 06, 2010 10:41 AM
To: Johnson, Steve F; Cruz, Carlos
Cc: Gawlik, Robert; Clemmer, Dean D
Subject: Bass 3 Fed #4

On 3/5 thru 3/7/10 we had 3 reportable spills on the Bass 3 Fed #4 Flow line.
Eric with Republic Backhoe responded to the spills and began the process of removing the heavily saturated soil.
To-date 1232 cubic yards of soil has been hauled to CRI.
Eric went back to the site starting on 3/15/10 to begin the process of delineation of the spill site.
A total of 10 test holes were excavated with a backhoe to a total depth of 15 ft. soil samples were collected at 5 ft. intervals and tested for TPH and chlorides.
3 of the test holes failed to delineate the vertical extent with readings as high as 19,200 mg/kg chlorides.
The TPH was delineated at the 5 ft. intervals.
I visited with the NMOCD "Sherry Bonham" yesterday 4/5/10.
The delineation was discussed as well as the estimated depth to water and distance to watercourse, before she will issue a closure level for chlorides she wants to know the total vertical extent.
I have instructed Eric to set up a soil boring rig to complete the vertical extent.
Hopefully we can get by with just a little more excavation and hauling, install a liner, and backfill.
Cost Summary:
Republic Backhoe \$7557
CRI \$19,712
Cardinal Lab \$6066
Total to-date: \$20,067
The soil boring delineation will probably cost between 5 to 7,000
I can see this project exceeding \$45,000 before closure.
I will keep you posted; I think Carlos was going to set this one up in well-view.
Thanks,
Tony



Chloride
Lab
Results
Sampled 6/8/12



Soil Boring SB-3

Boring SB-3

Depth below ground surface



| Soil Columns | Cl- Field Test | Cl- Lab Results | Petroleum Odor | Petroleum Stain | Soil Description |
|--------------|----------------|-----------------|----------------|-----------------|---|
| | | | None | None | |
| | | | None | None | |
| | >2,424 | | None | None | 0 - 20' - Sand and sandstone, tan to reddish brown, very fine grained, moist |
| | >2,424 | | None | None | |
| | (>2,424) | (4,720) | None | None | |
| | >2,424 | | None | None | |
| | >2,500 | | None | None | |
| | >2,500 | | None | None | |
| | (>2,500) | (6,240) | None | None | |
| | >2,500 | | None | None | |
| | >2,500 | | None | None | 20 - 85' - Sand and sandstone, tan to reddish brown, very fine grained |
| | >2,500 | | None | None | |
| | (>2,500) | (6,480) | None | None | |
| | >2,500 | | None | None | |
| | >2,500 | | None | None | |
| | (>2,500) | (7,440) | None | None | |
| | >2,500 | | None | None | 85 - 110' - Sand and sandstone, tan to reddish brown, very fine grained with clay |
| | >2,500 | (11,000) | None | None | |
| | >2,500 | | None | None | |
| | (924) | (1,250) | None | None | |
| | 676 | | None | None | |
| | (1,664) | (2,240) | None | None | |
| | | | None | None | |
| | (212) | (144) | None | None | 115 - 120' - Clay, red to grey, silty, dry |
| | (ND) | (44) | None | None | 120 - 125' - Clay, red, lite, dry |

Date Drilled April 26, 2010
 Thickness of Bentonite Seal 125 Ft
 Depth of Exploratory Boring 125 Ft
 Depth to Groundwater _____
 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 monitor well 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
 Bass 3 Fed #4 Spill #1
 Eddy County, New Mexico

Basin Environmental Consulting

Prep By: CDS

Checked By: CJB

May 25, 2010

NN 3-5' - 20,800
 1-5-16 3-10' - 16,000
 1-13464 3-15' - 7200
 2-5' - 14,400
 2-15' - 6800

DATE 880
 2-5' - 1720
 2-10' - 9600
 2-15' - 3200
 1-10' - 32
 1-15' - 32

2" Line

NE
 NE 2-10' 32
 2-15' 48

W
 2-5 - 32
 2-10 - 4520
 2-15 - 48
 W-1-5 - <16
 1-10 - 92
 1-15 - 992

5-10,000
 10- 48
 15- 384

3-5 - 2060
 3-10 - 912
 3-15 - 144
 2-5 - 48
 2-10 - 32
 2-15 - 32

SW-2-5' - 10200
 2-10 - 8400
 2-15 - 12400
 Sw 1-5' - 16
 1-10 - <16
 1-15 - 176

2-5' - 12600
 2-10' - 8160
 2-15 - 1260
 1-5' - 48
 1-10' - 32
 1-15 - <16

5 - 5320
 10 - 15800
 15 - 6320

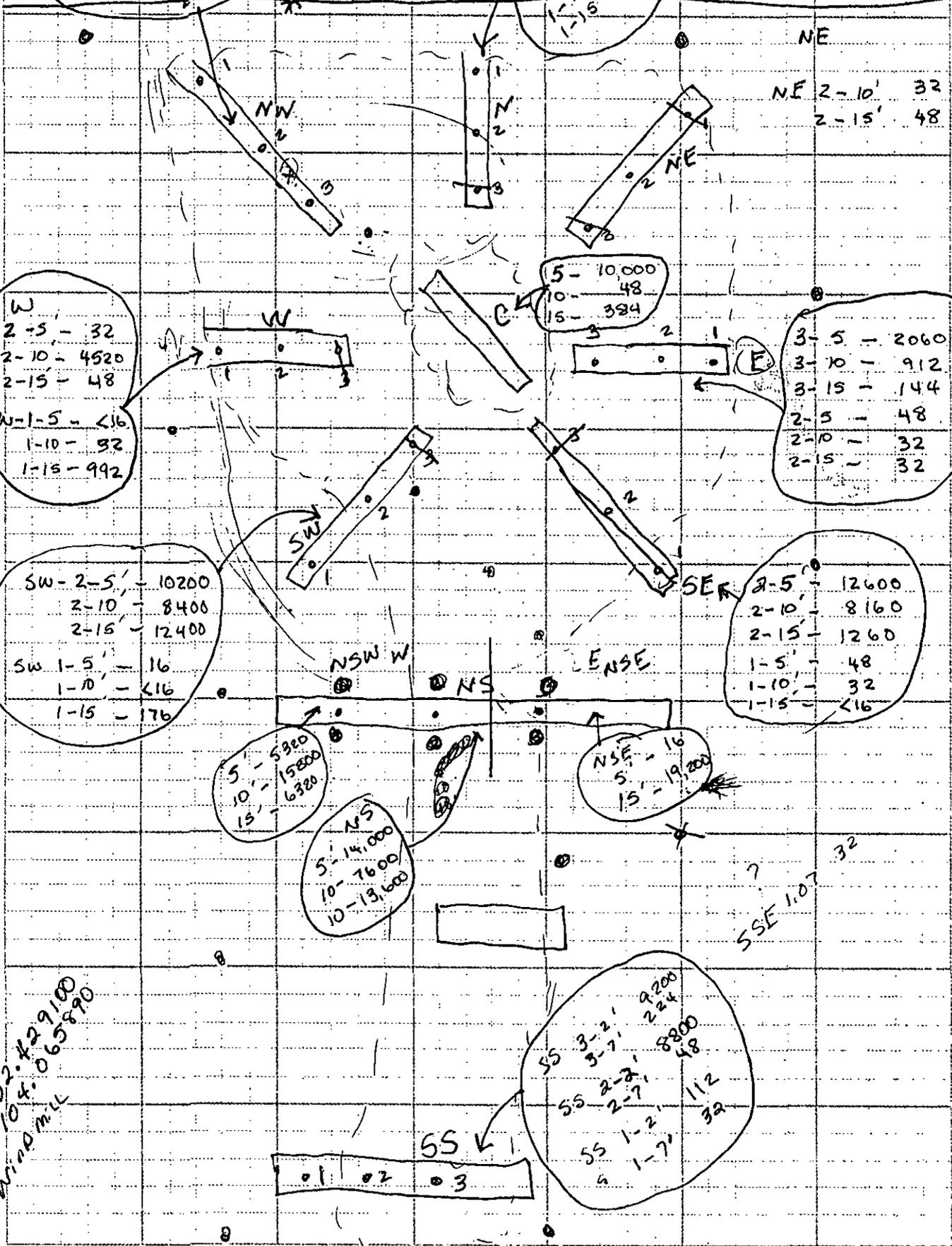
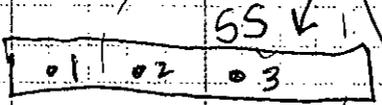
NSE - 16
 5' - 19,200
 15' - 32

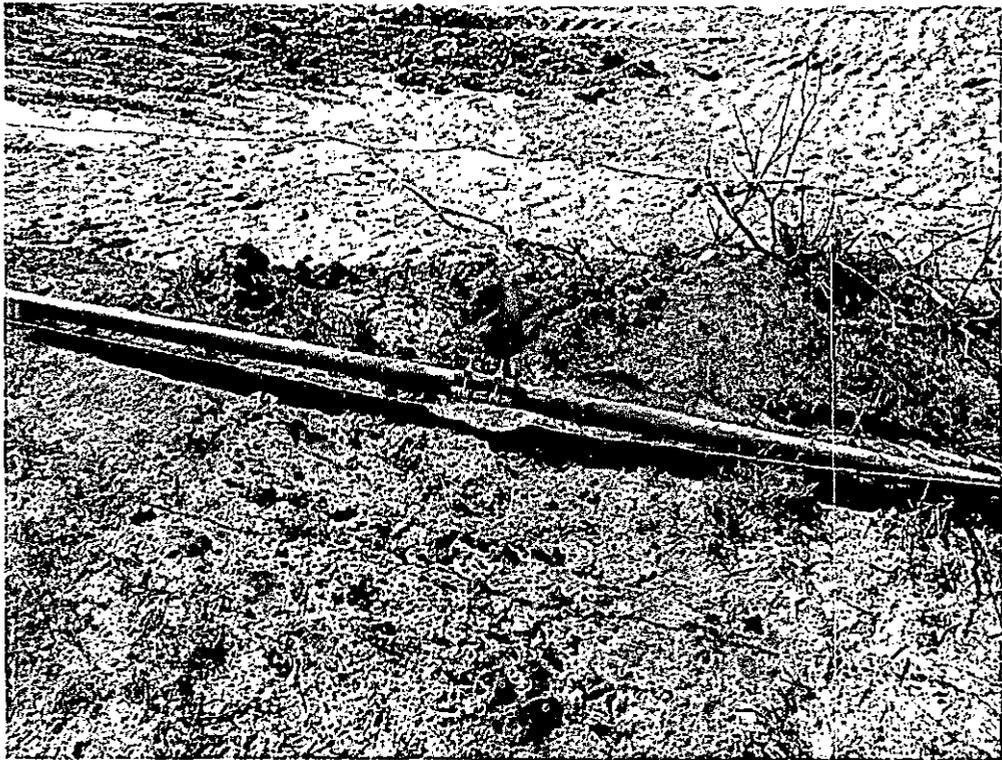
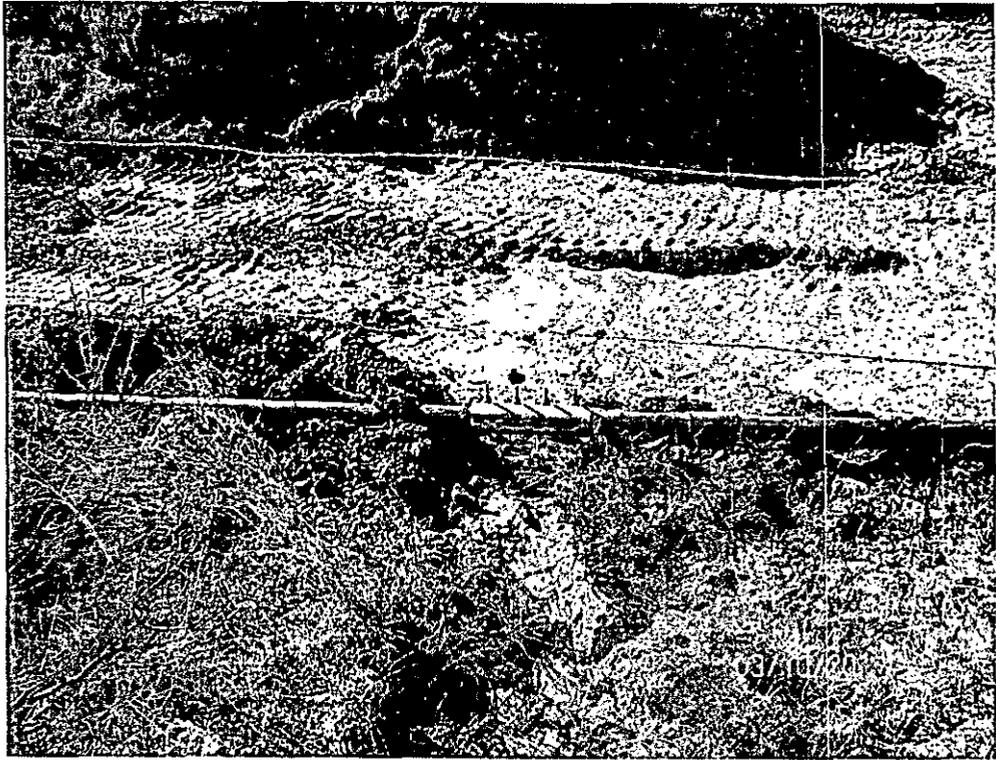
NS
 5' - 14,000
 10 - 7600
 10 - 13,600

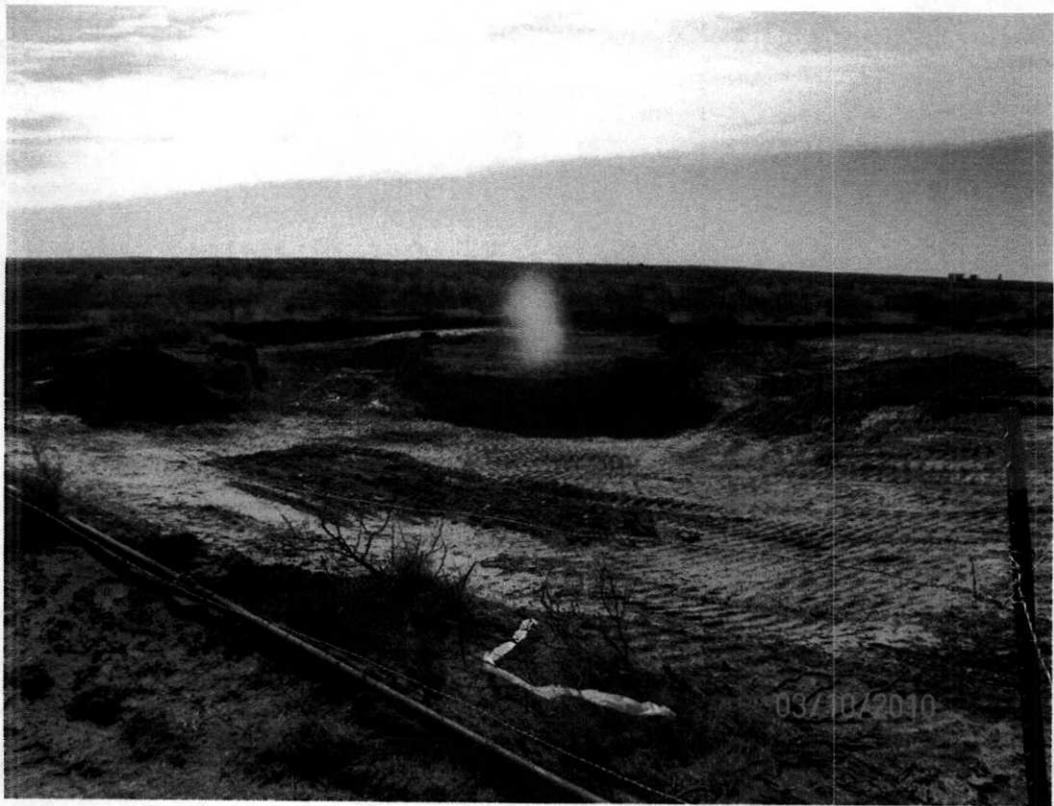
7
 SSE 1,07 32

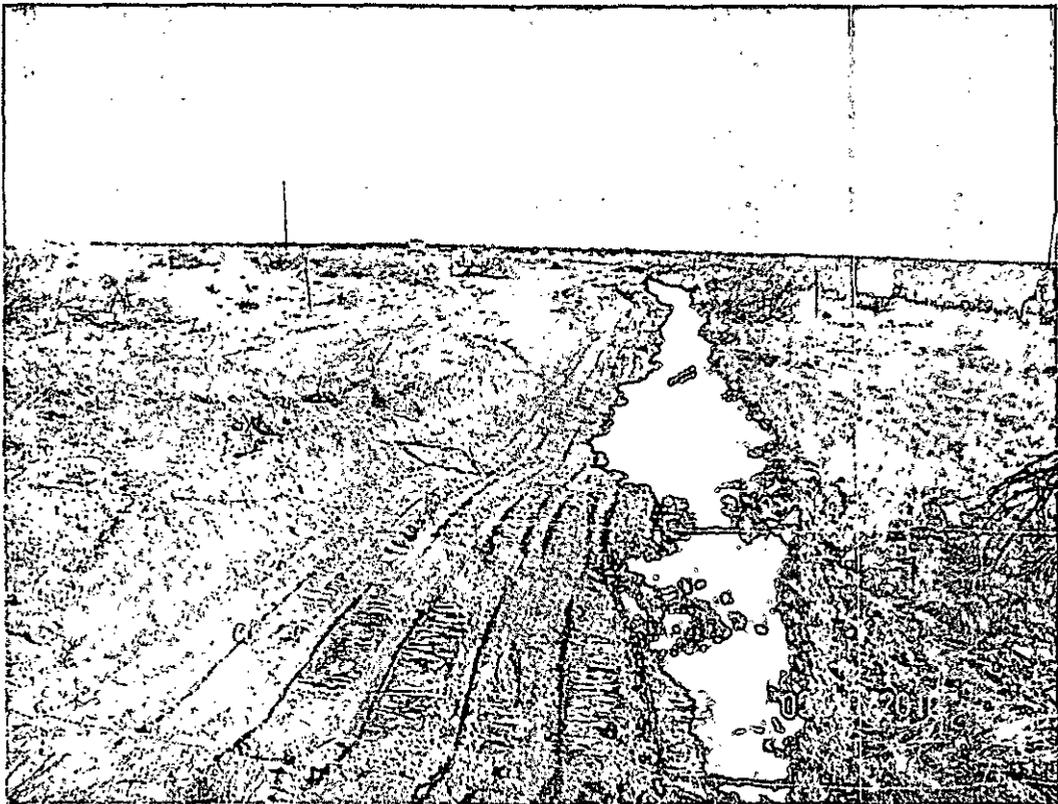
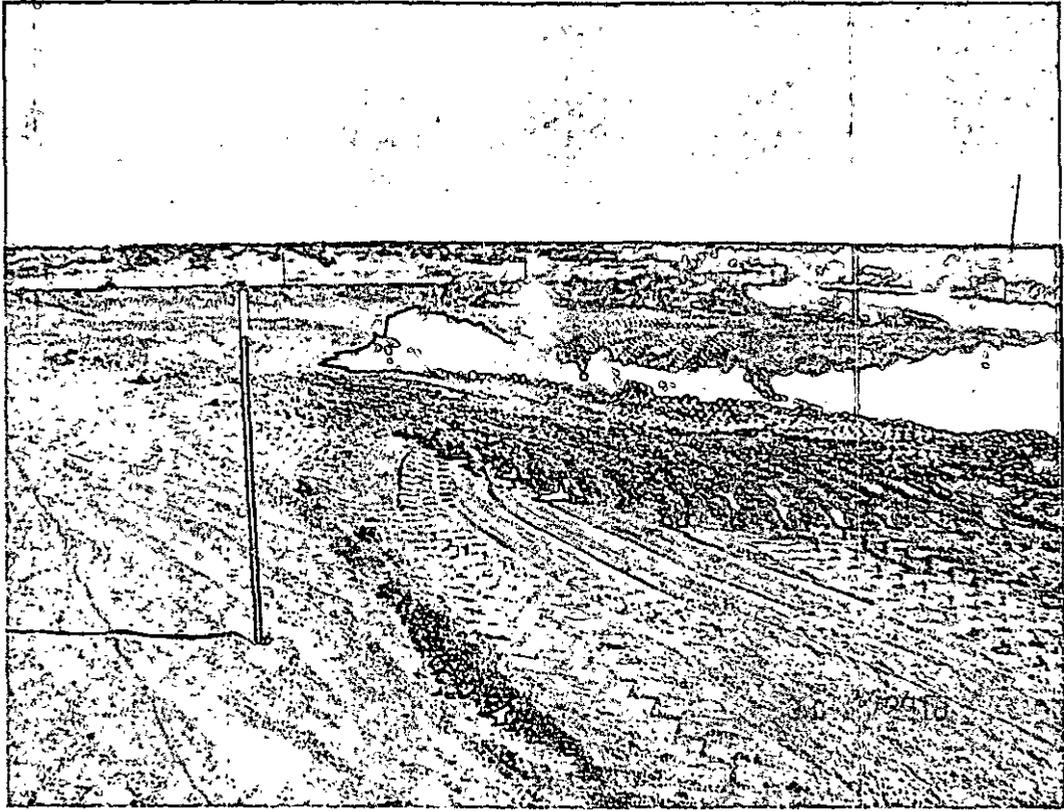
32.429100
 104.065890
 Windmill

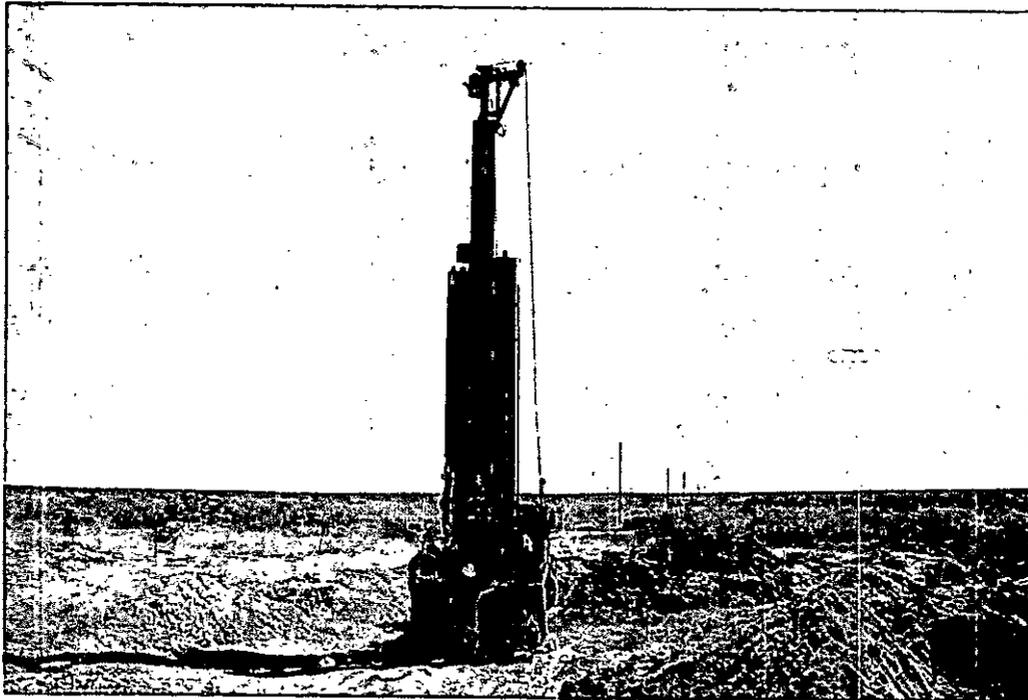
55 3-2' 29200
 3-7' 224
 8800
 48
 55 2-2' 112
 2-7' 32
 55 1-2' 32
 1-7'







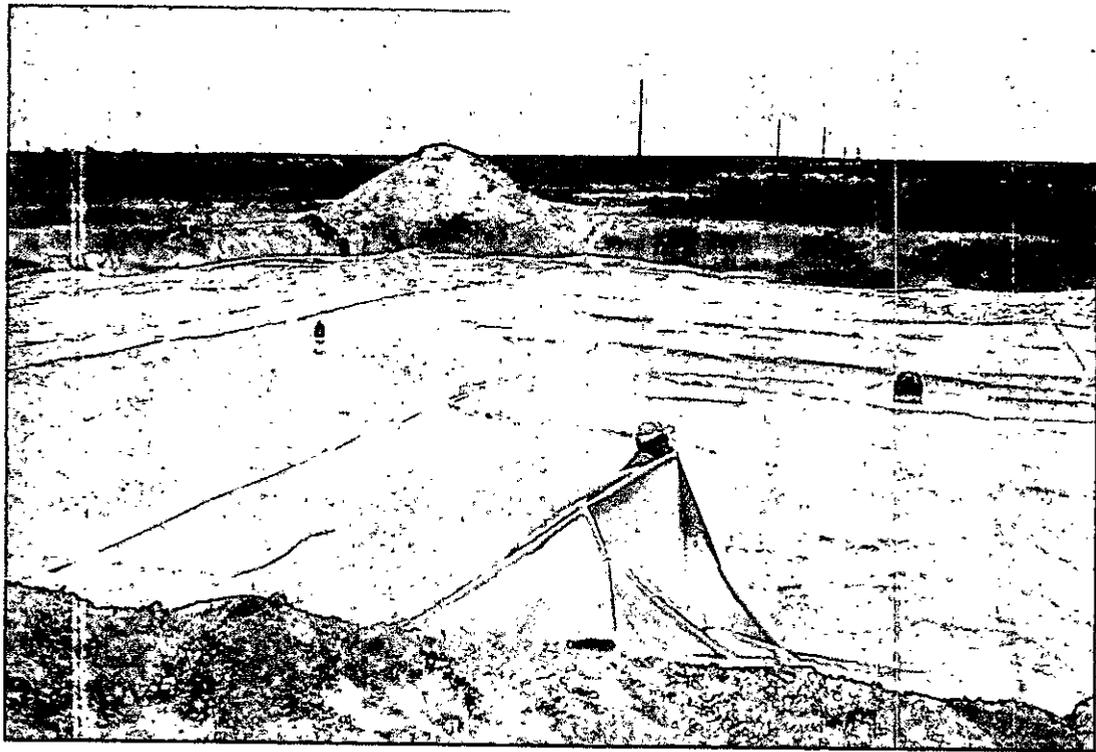
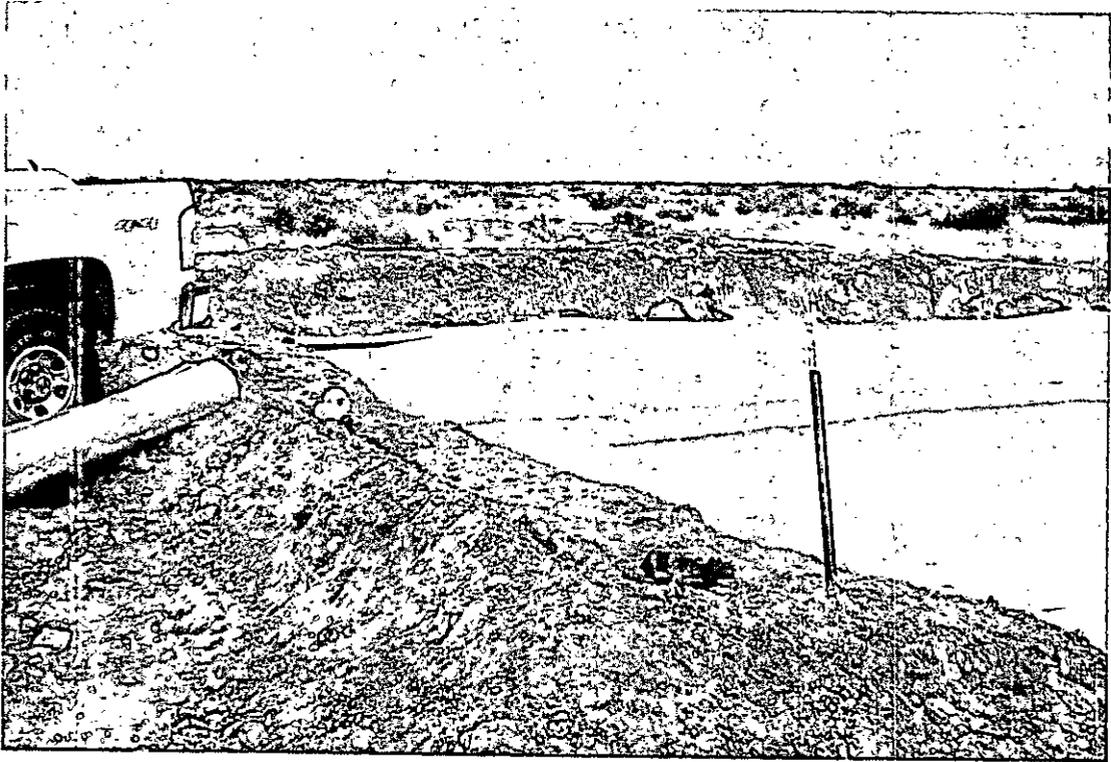




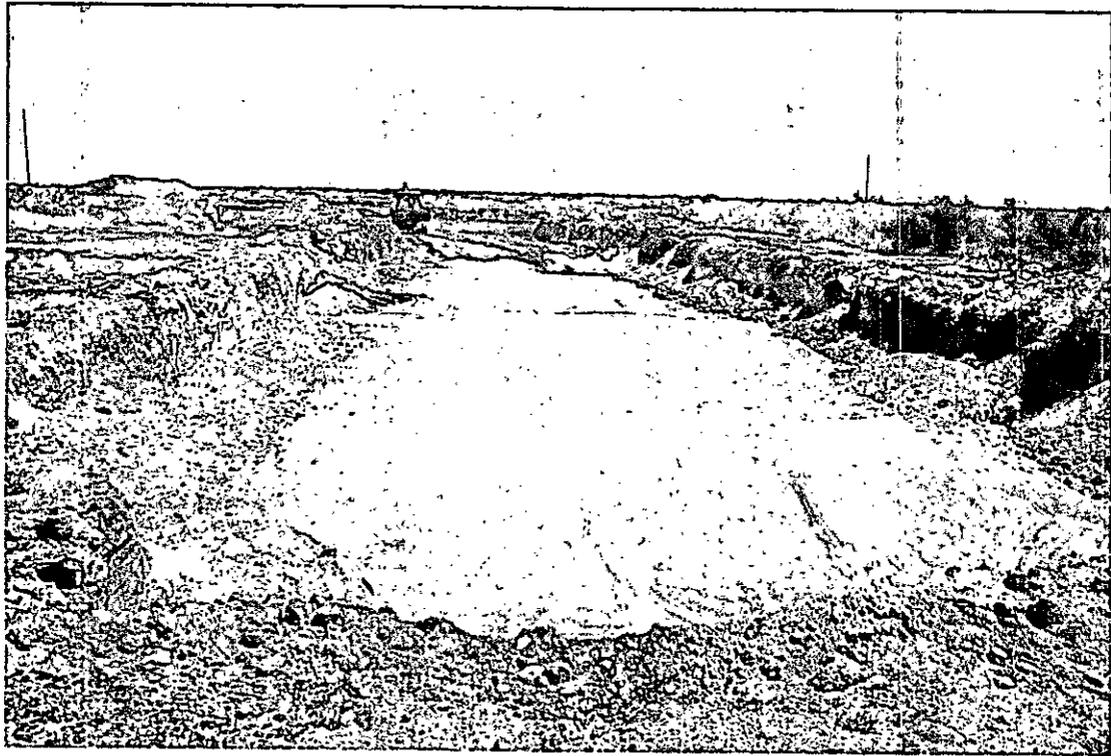
Photos 4/27/10 Struab drilling horizontal extent Site #1



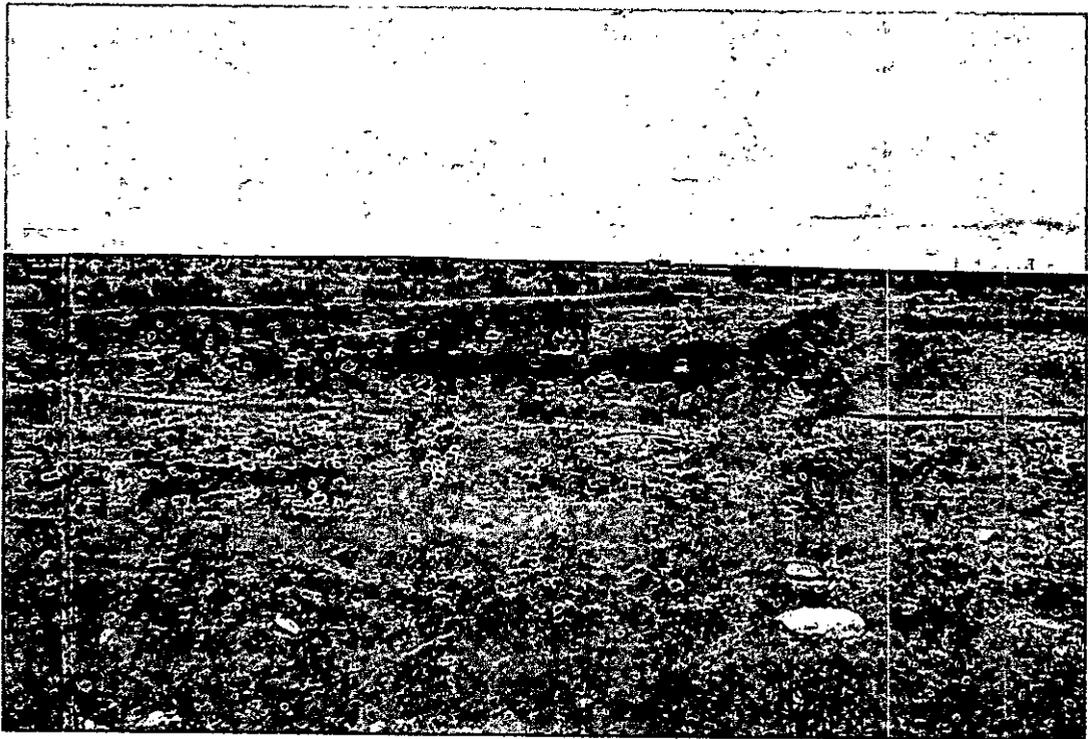
Photos 6/17/10 After floor prep



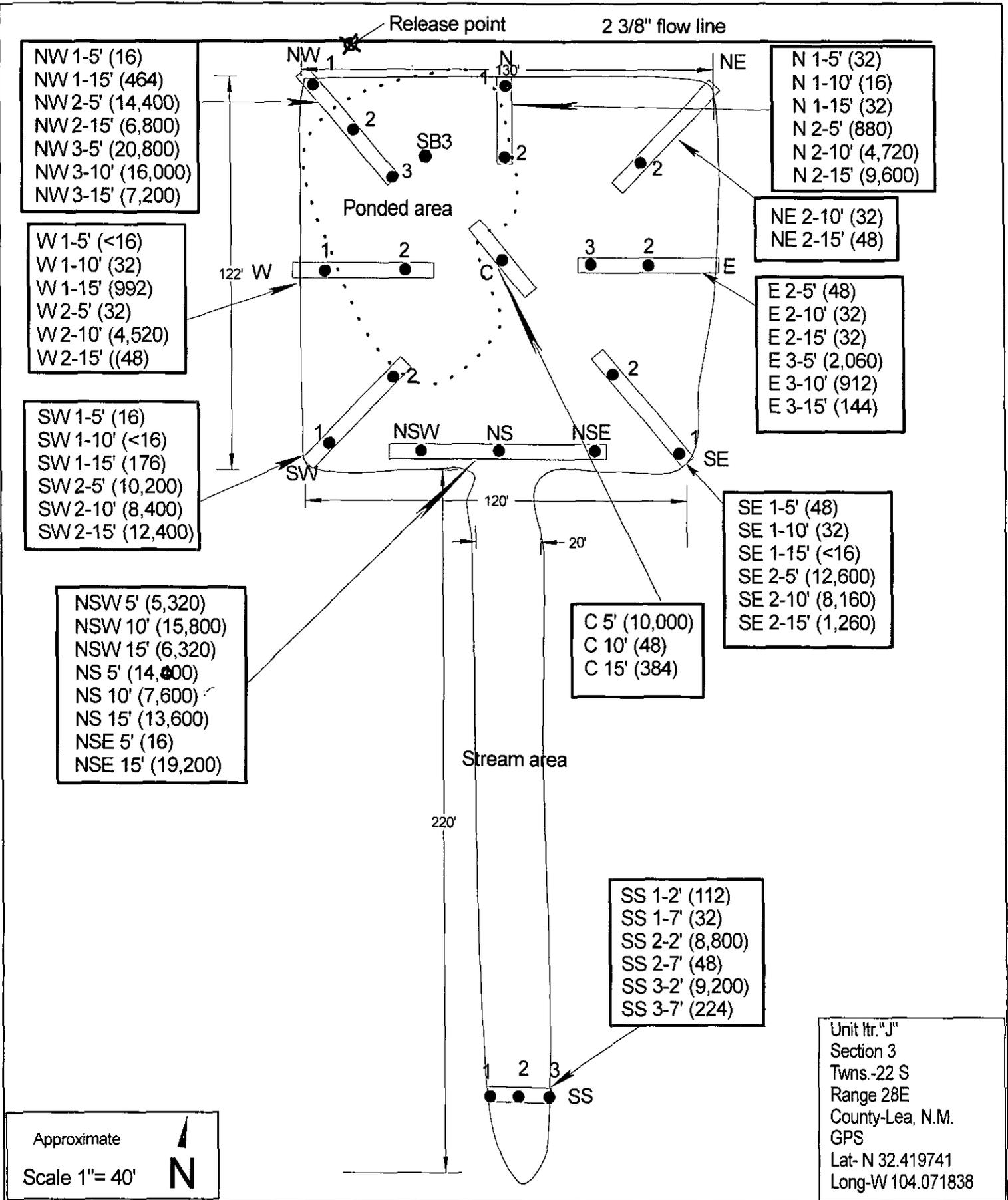
Liner installation Area #1 on 7/21/10



Laying in clean sand 7/22/10



After backfill and re-seeding 9/20/10



SITE PLAN: Bass 3 Federal #4

Spill #1

Lea County Area

Figure 1-Chlorides


BOPCO. L.P.
A Bass Legacy Company

Bass 3 Federal #4 Flowline Spill #1

Ranking Analysis, Remediation Plan and Closure Request

| NMOCD Standards | | | Points |
|--------------------------------|--|--------------|------------|
| Depth to Ground Water | Greater than 100 ft. | | 0 |
| Depth to Ground Water | Less than 100 ft. but greater than 50 ft. | | 10 |
| Depth to Ground Water | Less than 50 ft. | | 20 |
| Well Head Protection | Less than 1000 ft. from a water source, or, | Yes | 20 |
| | Less than 200 ft. from private domestic water source | No | 0 |
| Distance to Surface water body | Less than 200 Horizontal. ft. | | 20 |
| Distance to Surface water body | 200 to 1000 Horizontal ft. | | 10 |
| Distance to Surface water body | Greater than 1000 Horizontal ft. | | 0 |
| Action levels | >19 | 10-19 | 0-9 |
| Benzene (mg/kg) | 10 | 10 | 10 |
| BTEX (mg/kg) | 50 | 50 | 50 |
| TPH (mg/kg) | 100 | 1000 | 5000 |

| Site Ranking | | | Points |
|----------------------------|---|--|----------|
| Depth to Ground Water | 165 to 185 ft. | | 0 |
| Well Head Protection | 4,165 Horiz. Ft. | | 0 |
| Surface Water Body | Greater than 1000 ft. to an active water course | | 0 |
| Total Ranking Score | | | 0 |

| Site Closure Objective | |
|------------------------|----------------------|
| Benzene (mg/kg) | 10 |
| BTEX (mg/kg) | 50 |
| TPH (mg/kg) | 5000 |
| Chloride (mg/kg) | Delineation 250mg/kg |

Remediation Plan:

The affected area will be delineated horizontally and vertically either with a backhoe or air rotary rig, Soil samples will be collected during this process and analyzed for TPH Method 8015M, BTEX Method 8021B, and Chlorides Method 4500 CIB to assure the site closure levels have been achieved. The affected area will be excavated to a depth of approximately 5 ft. in depth, soil samples will be collected along the sidewalls at intervals that will demonstrate horizontal delineation has met the site closure objective.

Facts:

An area covering approximately 24,125 sq. ft. was excavated to a depth of 5 ft. BGS Approximately 5,000 cu. yds. were excavated and hauled to an approved surface waste management facility There are no sidewall samples that exceed the closure objectives for TPH, BTEX, or Chlorides. Vertical delineation was achieved with 1 soil bore in the center of the pond area advanced to 125 ft. BGS A dense clay layer was encountered at 115 ft. BGS and was still present at 125 ft. BGS There are no TPH levels above 100 mg/kg or BTEX above .1 anywhere in the excavation.

Closure Request:

Place a minimum of 1 ft. of clean pad material in the entire bottom of the excavation, cover the entire bottom of the excavation with a liner, spec. 20 Mil FT2. Lay in 1 ft. of rock free pad material on top of the liner, then complete the backfill with clean soil. The backfill material will be water packed while being placed into the excavation. Final restoration will be in compliance with the BLM assuring contouring and seed mix is adequate for the area.

RECEIVED

JUL 15 2010

NMOCD ARTESIA

Bass 3 Federal #4 Flowline Spill #1 Ranking Analysis, Remediation Plan and Closure Request

| NMOCD Standards | | | Points |
|--------------------------------|--|--------------|------------|
| Depth to Ground Water | Greater than 100 ft. | | 0 |
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| Depth to Ground Water | Less than 50 ft. | | 20 |
| Well Head Protection | Less than 1000 ft. from a water source, or; | Yes | 20 |
| | Less than 200 ft. from private domestic water source | No | 0 |
| Distance to Surface water body | Less than 200 Horizontal. ft. | | 20 |
| Distance to Surface water body | 200 to 1000 Horizontal ft. | | 10 |
| Distance to Surface water body | Greater than 1000 Horizontal ft. | | 0 |
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| Benzene (mg/kg) | 10 | 10 | 10 |
| BTEX (mg/kg) | 50 | 50 | 50 |
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|----------------------------|---|--|----------|
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| Total Ranking Score | | | 0 |

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|------------------------|----------------------|
| Benzene (mg/kg) | 10 |
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| TPH (mg/kg) | 5000 |
| Chloride (mg/kg) | Delineation 250mg/kg |

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Facts:

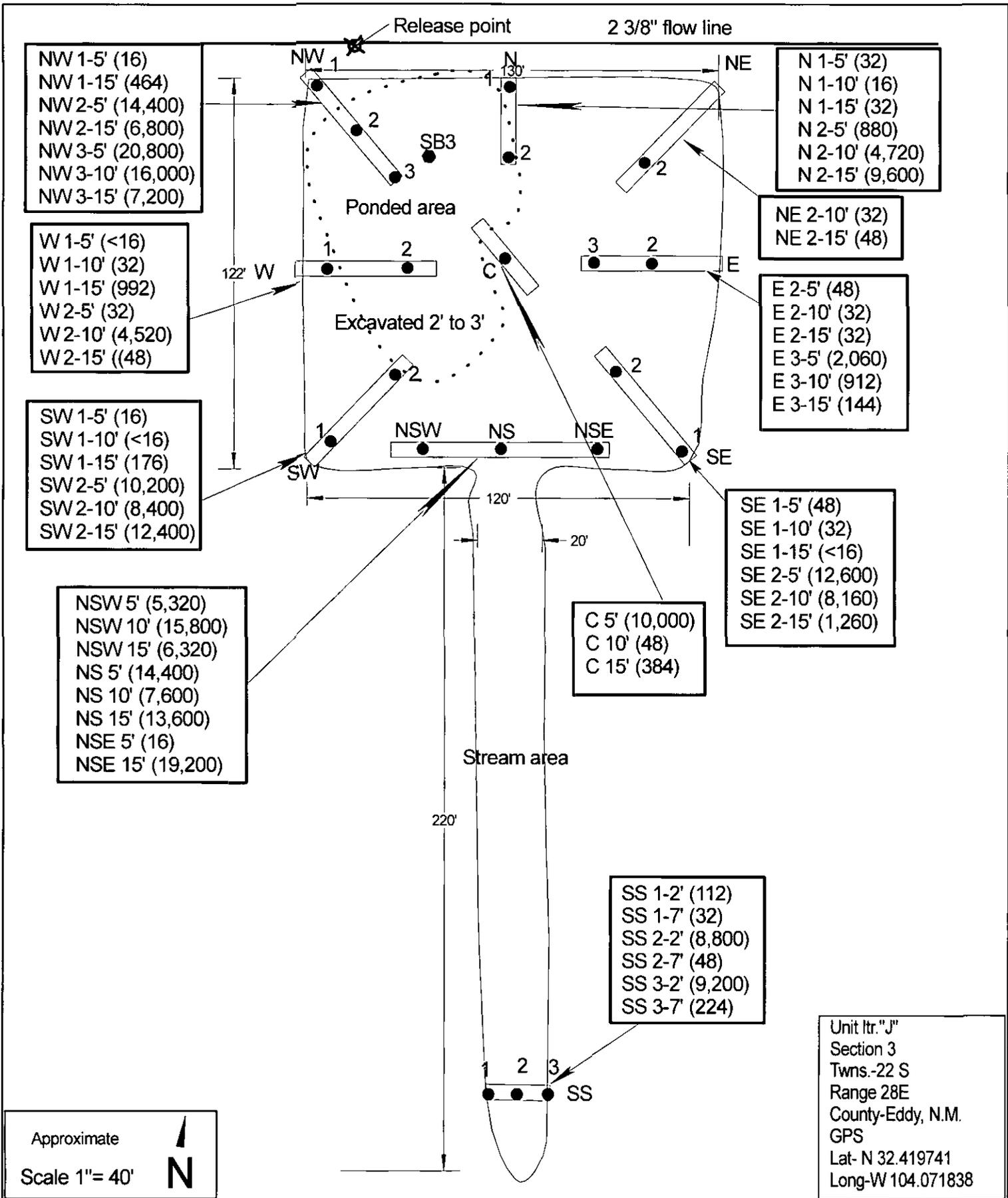
An area covering approximately 24,125 sq. ft. was excavated to a depth of 5 ft. BGS Approximately 5,000 cu. yds. were excavated and hauled to an approved surface waste management facility There are no sidewall samples that exceed the closure objectives for TPH, BTEX, or Chlorides. Vertical delineation was achieved with 1 soil bore in the center of the pond area advanced to 125 ft. BGS A dense clay layer was encountered at 115 ft. BGS and was still present at 125 ft. BGS There are no TPH levels above 100 mg/kg or BTEX above .1 anywhere in the excavation.

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TONY SAVOIE

Tony Savoie 7/15/10



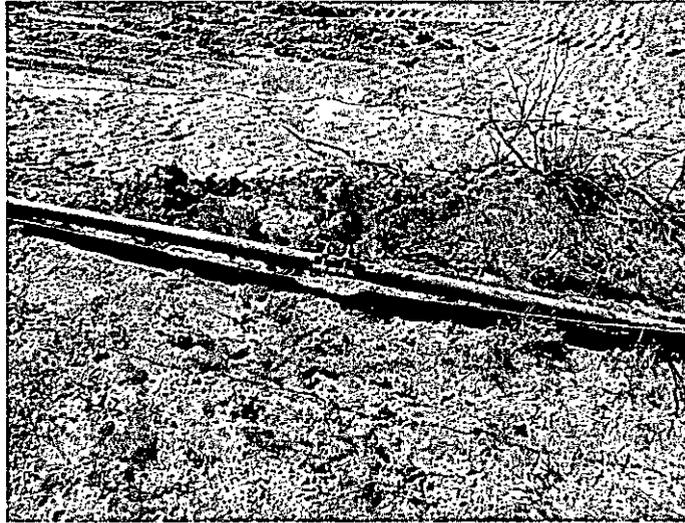
SITE PLAN: Bass 3 Federal #4

Spill #1

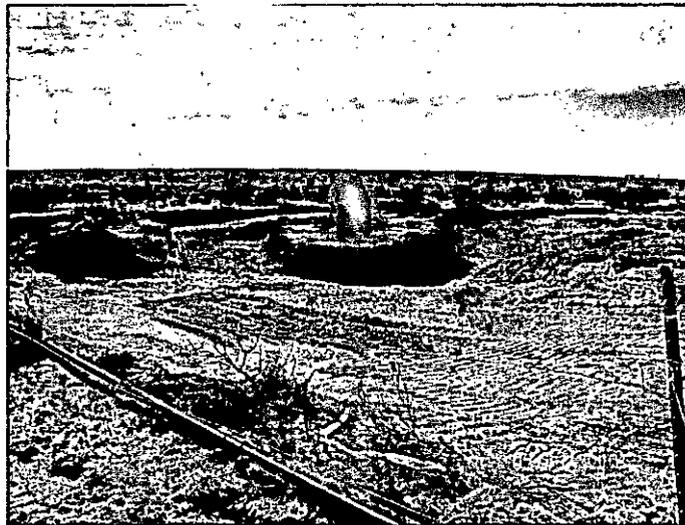
BOPCO. L.P.
A Bass Legacy Company

Lea County Area

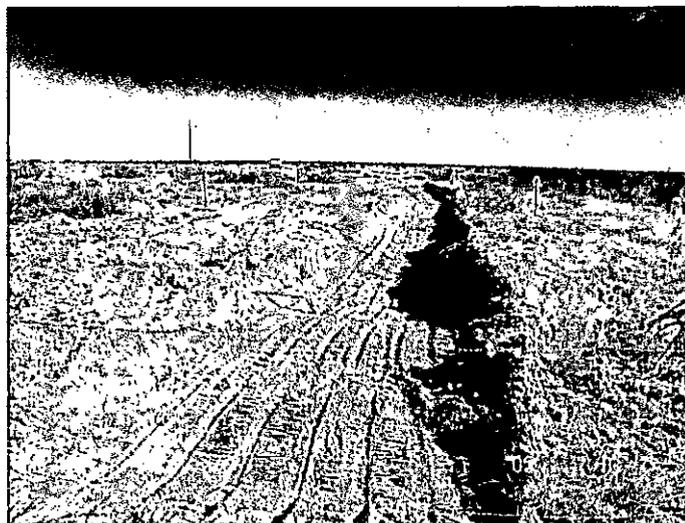
Figure 1-Chlorides



NW looking SE



NW Looking SE



S Looking N

Bass 3 Federal #4 Flow Line Spill #1
After initial response 3/10/10

Soil Boring SB-3

Boring SB-3

Depth below ground surface



| Soil Columns | CI- Field Test | CI- Lab Results | Petroleum Odor | Petroleum Stain | Soil Description |
|--------------|----------------|-----------------|----------------|-----------------|---|
| | | | None | None | |
| | | | None | None | |
| | >2,424 | | None | None | 0 - 20' - Sand and sandstone, tan to reddish brown, very fine grained, moist |
| | >2,424 | | None | None | |
| | (>2,424) | (4,720) | None | None | |
| | >2,424 | | None | None | |
| | >2,500 | | None | None | |
| | >2,500 | | None | None | |
| | (>2,500) | (6,240) | None | None | |
| | >2,500 | | None | None | |
| | >2,500 | | None | None | 20 - 85' - Sand and sandstone, tan to reddish brown, very fine grained |
| | >2,500 | | None | None | |
| | (>2,500) | (6,480) | None | None | |
| | >2,500 | | None | None | |
| | >2,500 | | None | None | |
| | (>2,500) | (7,440) | None | None | |
| | >2,500 | | None | None | 85 - 110' - Sand and sandstone, tan to reddish brown, very fine grained with clay |
| | >2,500 | (11,000) | None | None | |
| | >2,500 | | None | None | |
| | (924) | (1,250) | None | None | |
| | 676 | | None | None | |
| | (1,664) | (2,240) | None | None | |
| | | | None | None | |
| | (212) | (144) | None | None | 115 - 120' - Clay, red to gray, silty, dry |
| | (ND) | (44) | None | None | 120 - 125' - Clay, red, tite, dry |

Date Drilled: April 26, 2010
 Thickness of Bentonite Seal: 125 Ft
 Depth of Exploratory Boring: 125 Ft bgs
 Depth to Groundwater: _____
 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 monitor well 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.

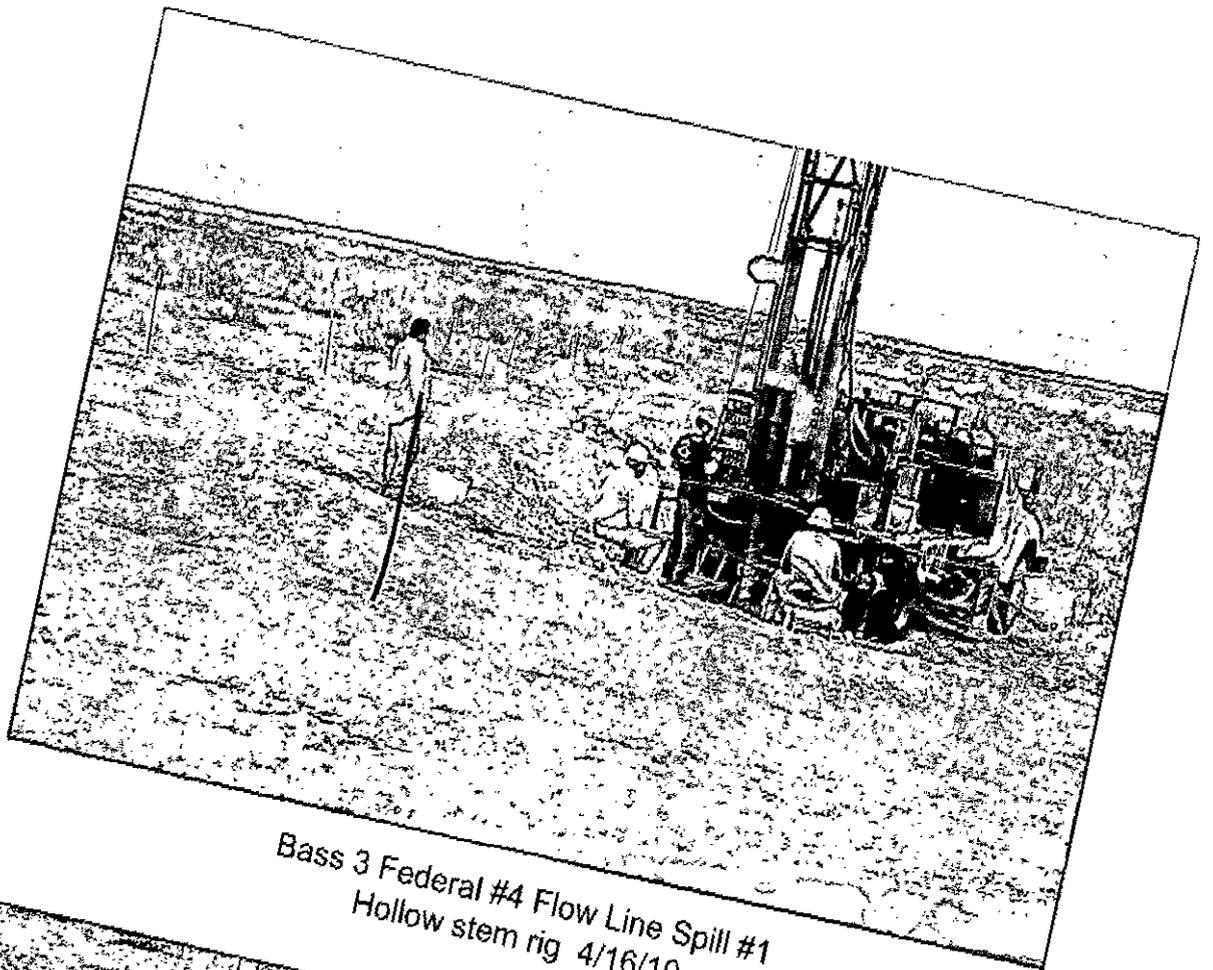
Soil Boring SB-2

BOPCO
 Bass 3 Fed #4 Spill #1
 Eddy County, New Mexico

Basin Environmental Consulting

Prep By: CDS
 May 25, 2010

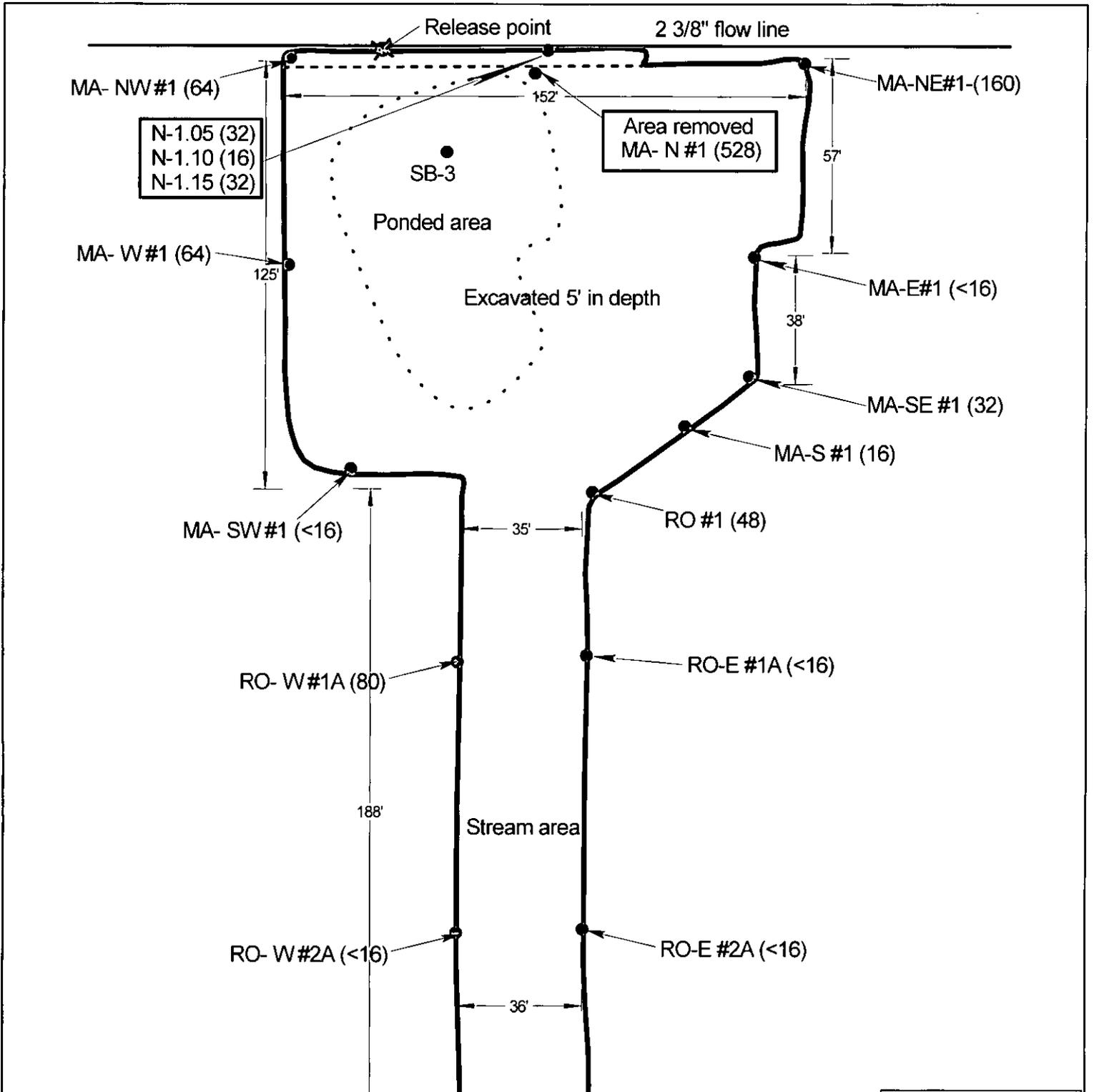
Checked By: CJB



Bass 3 Federal #4 Flow Line Spill #1
Hollow stem rig 4/16/10



Bass 3 Federal #4 Flow Line Spill #1
Air Rotary Rig 4/27/10



Unit ltr. "J"
 Section 3
 Twns.-22 S
 Range 28E
 County-Eddy, N.M.
 GPS
 Lat- N 32.419741
 Long-W 104.071838

Approximate
 Scale 1"= 40'
 N


 BOPCO. L.P.
 A Bass Legacy Company

SITE PLAN:Bass 3 Federal #4

Lea County Area

Spill #1

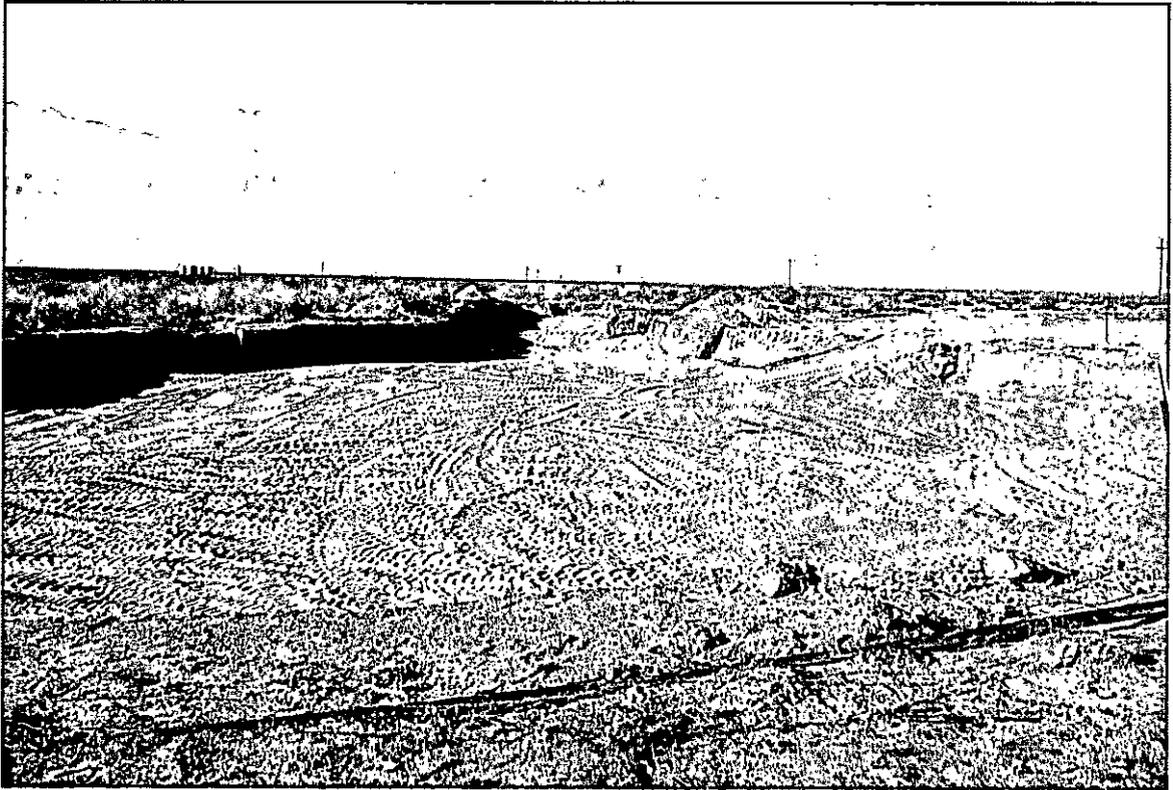
Figure 2-Chlorides



Bass 3 Federal #4 Flow Line Spill #1
Looking North to South 6/17/10



Bass 3 Federal #4 Flow Line Spill #1
Looking West to East 6/17/10



Bass 3 Federal #4 Flow Line Spill #1
Looking North to South 6/17/10



Bass 3 Federal #4 Flow Line Spill #1
Looking East to West 6/17/10



**ARDINAL
LABORATORIES**

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

June 25, 2010

Eric Garcia
Republic Backhoe
1513 West Aspen
Lovington, NM 88260

Re: Bass 3 Fed #4

Enclosed are the results of analyses for sample number H20167, received by the laboratory on 06/21/10 at 11:50 am.

Cardinal Laboratories is accredited through Texas NELAP for:

| | |
|--------------------|--|
| Method SW-846 8021 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method SW-846 8260 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method TX 1005 | Total Petroleum Hydrocarbons |

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 524.2 | Regulated VOCs (V2, V3) |

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 5 (includes Chain of Custody)

Sincerely,


Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.

ANALYTICAL RESULTS FOR
REPUBLIC BACKHOE SERVICES
ATTN: ERIC GARCIA
1513 W. ASPEN
LOVINGTON, NM 88260

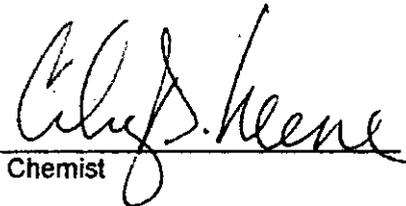
Receiving Date: 06/21/10
Reporting Date: 06/24/10
Project Number: NOT GIVEN
Project Name: BASS 3 FED #4
Project Location: NOT GIVEN

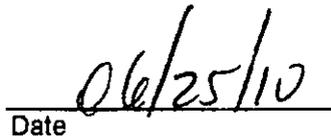
Analysis Date: 06/22/10
Sampling Date: 06/17/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 6°C
Sample Received By: JH
Analyzed By: HM

| LAB NUMBER | SAMPLE ID | Cl ⁻ (mg/kg) |
|-----------------------------|-----------|----------------------------|
| H20167-1 | S2-W1 | < 16 |
| H20167-2 | S2-W2 | < 16 |
| H20167-3 | S2-E1 | < 16 |
| H20167-4 | S2-E2 | < 16 |
| H20167-5 | S2-E3B | < 16 |
| H20167-6 | S2-N1 | < 16 |
| H20167-7 | S2-N2 | < 16 |
| H20167-8 | S2-S2 | < 16 |
| H20167-9 | S2-S1B | < 16 |
| H20167-10 | RO-E1A | < 16 |
| H20167-11 | RO-E2A | < 16 |
| H20167-12 | RO-E3A | < 16 |
| Quality Control | | 490 |
| True Value QC | | 500 |
| % Recovery | | 98.0 |
| Relative Percent Difference | | 3.8 |

| | |
|--------------------------|------------------------|
| METHOD: Standard Methods | 4500-Cl ⁻ B |
|--------------------------|------------------------|

Note: Analyses performed on 1:4 w:v aqueous extracts.


Cheryl Keene
Chemist


Date 06/25/10

H20167 CL Republic Backhoe



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|--|--------------------------|--|-------------------------|--|--------------------|--|-------------------|--|-------------|--|---------------|--|---------------|--|-------------|--|-------------|--|
| Company Name: Republic Barkhoe | | BILL TO | | ANALYSIS REQUEST | | | | | | | | | | | | | | | |
| Project Manager: Eric Garcia | | P.O. #: | | | | | | | | | | | | | | | | | |
| Address: 1513 W. Aspen | | Company: Bopco | | | | | | | | | | | | | | | | | |
| City: | | Attn: | | | | | | | | | | | | | | | | | |
| Phone #: | | Address: | | | | | | | | | | | | | | | | | |
| Project #: | | City: | | | | | | | | | | | | | | | | | |
| Project Name: Bass 3 Fed #4 | | State: | | Zip: | | | | | | | | | | | | | | | |
| Project Location: | | Phone #: | | | | | | | | | | | | | | | | | |
| Sampler Name: Eric Garcia | | Fax #: | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | MATRIX | | PRESERV | | SAMPLING | | | | | | | | | | | | | |
| Lab I.D. | | (G) RAB OR (COMP. | | # CONTAINERS | | GROUNDWATER | | WASTEWATER | | SOIL | | SLUDGE | | OTHER: | | DATE | | TIME | |
| H20167-11 | | RO - E2A | | ✓ | | ✓ | | ✓ | | ✓ | | ✓ | | 10/17 | | 2:50 | | L | |
| 12 | | RO - E3A | | ✓ | | ✓ | | ✓ | | ✓ | | ✓ | | L | | 2:50 | | L | |

PLEASE NOTE: Laboratory and client's liability and client's exclusive remedy for any claim arising under this contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for consequential or consequential damage, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal. Regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: _____ **Date:** _____ **Time:** _____ **Received By:** _____

Relinquished By: _____ **Date:** 10/24/10 **Time:** 11:50 **Received By:** Eric Garcia

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

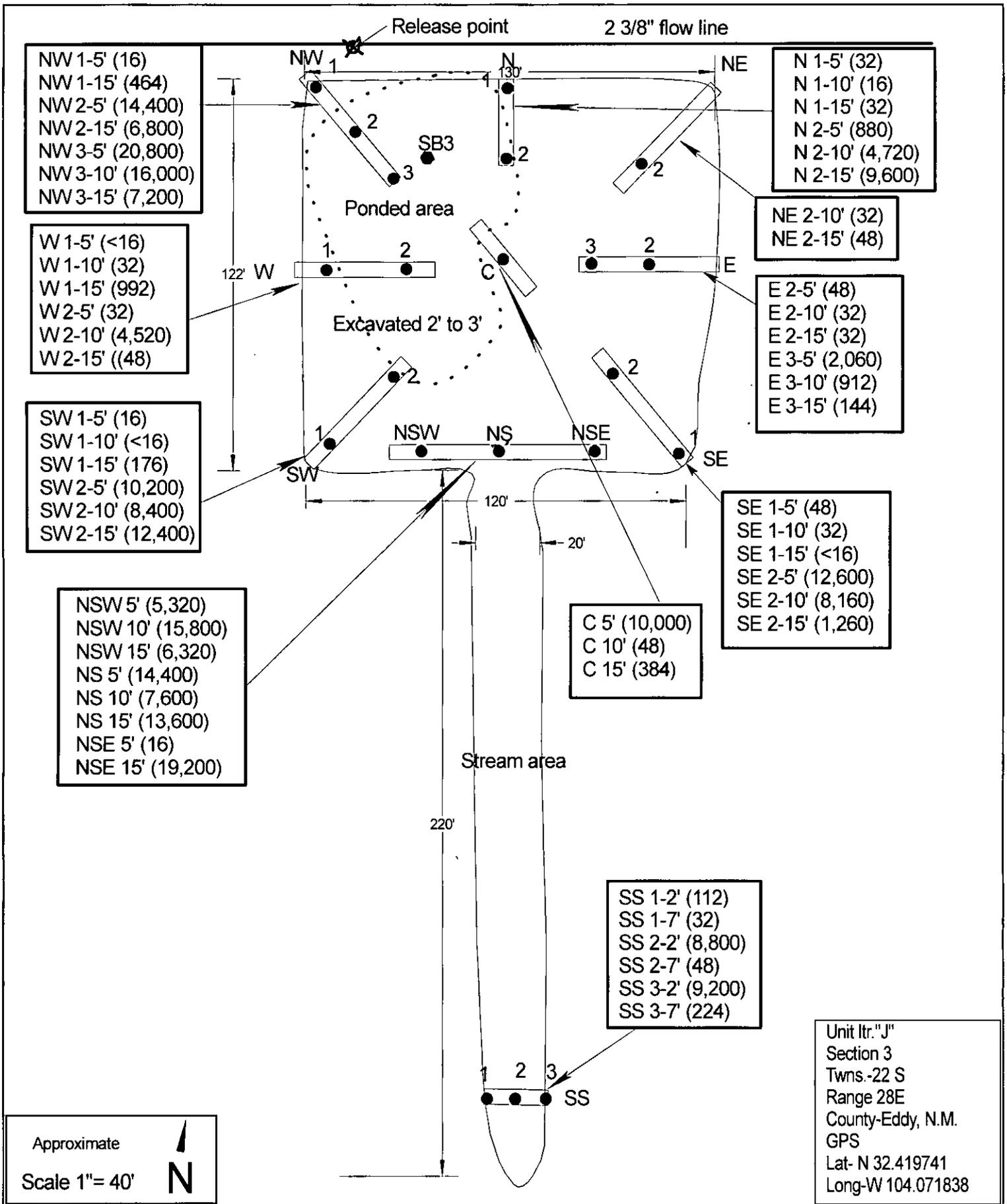
Sample Condition: Cool Intact Yes No
 Checked By: _____ (Initials)

Phone Result: Yes No **Add'l Phone #:** _____
Fax Result: Yes No **Add'l Fax #:** _____

REMARKS:

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

#26



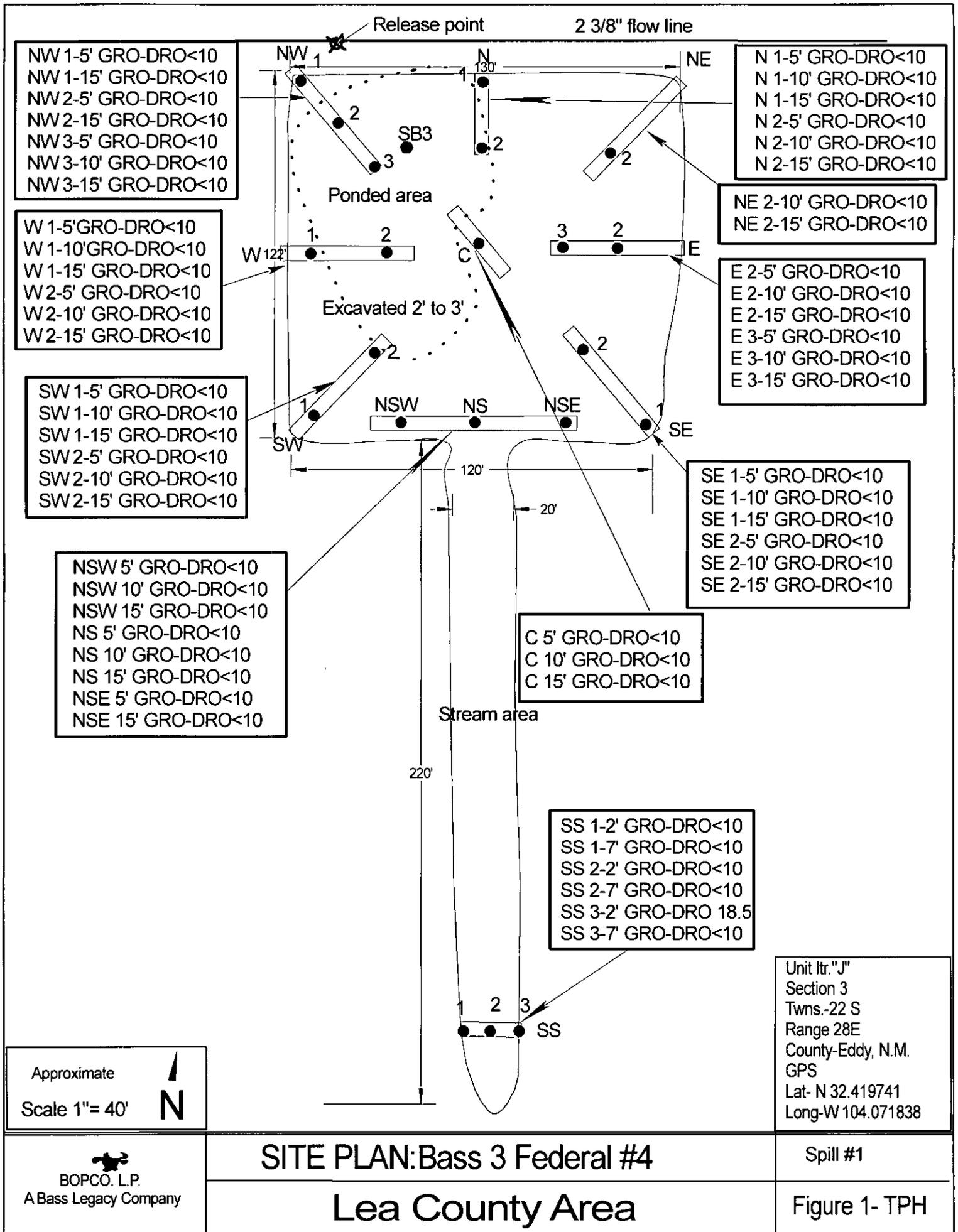
SITE PLAN: Bass 3 Federal #4

Spill #1

BOPCO. L.P.
A Bass Legacy Company

Lea County Area

Figure 1-Chlorides



NW 1-5' GRO-DRO<10
 NW 1-15' GRO-DRO<10
 NW 2-5' GRO-DRO<10
 NW 2-15' GRO-DRO<10
 NW 3-5' GRO-DRO<10
 NW 3-10' GRO-DRO<10
 NW 3-15' GRO-DRO<10

W 1-5' GRO-DRO<10
 W 1-10' GRO-DRO<10
 W 1-15' GRO-DRO<10
 W 2-5' GRO-DRO<10
 W 2-10' GRO-DRO<10
 W 2-15' GRO-DRO<10

SW 1-5' GRO-DRO<10
 SW 1-10' GRO-DRO<10
 SW 1-15' GRO-DRO<10
 SW 2-5' GRO-DRO<10
 SW 2-10' GRO-DRO<10
 SW 2-15' GRO-DRO<10

NSW 5' GRO-DRO<10
 NSW 10' GRO-DRO<10
 NSW 15' GRO-DRO<10
 NS 5' GRO-DRO<10
 NS 10' GRO-DRO<10
 NS 15' GRO-DRO<10
 NSE 5' GRO-DRO<10
 NSE 15' GRO-DRO<10

N 1-5' GRO-DRO<10
 N 1-10' GRO-DRO<10
 N 1-15' GRO-DRO<10
 N 2-5' GRO-DRO<10
 N 2-10' GRO-DRO<10
 N 2-15' GRO-DRO<10

NE 2-10' GRO-DRO<10
 NE 2-15' GRO-DRO<10

E 2-5' GRO-DRO<10
 E 2-10' GRO-DRO<10
 E 2-15' GRO-DRO<10
 E 3-5' GRO-DRO<10
 E 3-10' GRO-DRO<10
 E 3-15' GRO-DRO<10

SE 1-5' GRO-DRO<10
 SE 1-10' GRO-DRO<10
 SE 1-15' GRO-DRO<10
 SE 2-5' GRO-DRO<10
 SE 2-10' GRO-DRO<10
 SE 2-15' GRO-DRO<10

C 5' GRO-DRO<10
 C 10' GRO-DRO<10
 C 15' GRO-DRO<10

SS 1-2' GRO-DRO<10
 SS 1-7' GRO-DRO<10
 SS 2-2' GRO-DRO<10
 SS 2-7' GRO-DRO<10
 SS 3-2' GRO-DRO 18.5
 SS 3-7' GRO-DRO<10

Unit ltr. "J"
 Section 3
 Twns.-22 S
 Range 28E
 County-Eddy, N.M.
 GPS
 Lat- N 32.419741
 Long-W 104.071838

Approximate
 Scale 1"= 40'

SITE PLAN: Bass 3 Federal #4

Spill #1

BOPCO. L.P.
 A Bass Legacy Company

Lea County Area

Figure 1- TPH



ARDINAL LABORATORIES

PHONE (575) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

March 29, 2010

Eric Garcia
Republic Backhoe
1513 West Aspen
Lovington, NM 88260

Re: Bass 3 Fed #4

Enclosed are the results of analyses for sample number H19498, received by the laboratory on 03/19/10 at 5:10 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

| | |
|--------------------|--|
| Method SW-846 8021 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method SW-846 8260 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method TX 1005 | Total Petroleum Hydrocarbons |

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 524.2 | Regulated VOCs (V2, V3) |

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 15 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.



ARDINAL LABORATORIES

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

ANALYTICAL RESULTS FOR
REPUBLIC BACKHOE
ATTN: ERIC GARCIA
1513 W. ASPEN
LOVINGTON, NM 88260
FAX TO: (575) 396-7782

Receiving Date: 03/19/10
Reporting Date: 03/25/10
Project Owner: BOPCO L.P.
Project Name: BASS 3 FED #4
Project Location: BASS 3 FED #4

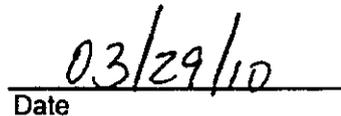
Analysis Date: 03/22/10
Sampling Date: 03/17/10 - 03/19/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 0.5°C
Sample Received By: JH
Analyzed By: SJ

| LAB NUMBER | SAMPLE ID | Cl* (mg/kg) |
|-----------------------------|-----------|----------------|
| H19498-1 | NE 2.10 | 32 |
| H19498-2 | NE 2.15 | 48 |
| H19498-3 | W 2.05 | 32 |
| H19498-4 | W 2.10 | 4,520 |
| H19498-5 | W 2.15 | 48 |
| H19498-6 | W 1.05 | < 16 |
| H19498-7 | W 1.10 | 32 |
| H19498-8 | W 1.15 | 992 |
| H19498-9 | E 2.05 | 48 |
| H19498-10 | E 2.10 | 32 |
| H19498-11 | E 2.15 | 32 |
| H19498-12 | E 3.05 | 2,060 |
| H19498-13 | E 3.10 | 912 |
| H19498-14 | E 3.15 | 144 |
| Quality Control | | 480 |
| True Value QC | | 500 |
| % Recovery | | 96.0 |
| Relative Percent Difference | | 2.1 |

| | |
|--------------------------|----------|
| METHOD: Standard Methods | 4500-ClB |
|--------------------------|----------|

*Analyses performed on 1:4 w:v aqueous extracts.


Cheryl Kune
Chemist


03/29/10
Date

H19498 Republic Backhoe

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ANALYTICAL RESULTS FOR
REPUBLIC BACKHOE
ATTN: ERIC GARCIA
1513 W. ASPEN
LOVINGTON, NM 88260
FAX TO: (575) 396-7782

Receiving Date: 03/19/10
Reporting Date: 03/25/10
Project Owner: BOPCO L.P.
Project Name: BASS 3 FED #4
Project Location: BASS 3 FED #4

Analysis Date: 03/22/10 & 03/23/10
Sampling Date: 03/17/10 - 03/19/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 0.5°C
Sample Received By: JH
Analyzed By: CK/SJ

| LAB NUMBER | SAMPLE ID | Cl* (mg/kg) |
|-----------------------------|-----------|----------------|
| H19498-15 | SE 1.05 | 48 |
| H19498-16 | SE 1.10 | 32 |
| H19498-17 | SE 1.15 | < 16 |
| H19498-18 | SE 2.05 | 12,600 |
| H19498-19 | SE 2.10 | 8,160 |
| H19498-20 | SE 2.15 | 1,260 |
| H19498-21 | SW 2.05 | 10,200 |
| H19498-22 | SW 2.10 | 8,400 |
| H19498-23 | SW 2.15 | 12,400 |
| H19498-24 | SW 1.05 | 16 |
| H19498-25 | SW 1.10 | < 16 |
| H19498-26 | SW 1.15 | 176 |
| H19498-27 | C .05 | 10,000 |
| H19498-28 | C .10 | 48 |
| Quality Control | | 480 |
| True Value QC | | 500 |
| % Recovery | | 96.0 |
| Relative Percent Difference | | < 0.1 |

| | |
|--------------------------|----------|
| METHOD: Standard Methods | 4500-CIB |
|--------------------------|----------|

*Analyses performed on 1:4 w:v aqueous extracts.


Chemist

03/29/10
Date

H19498 Republic Backhoe



ARDINAL LABORATORIES

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

REPUBLIC BACKHOE
ATTN: ERIC GARCIA
1513 W. ASPEN
LOVINGTON, NM 88260
FAX TO: (575) 396-7782

Receiving Date: 03/19/10
Reporting Date: 03/26/10
Project Owner: BOPCO L.P.
Project Name: BASS 3 FED #4
Project Location: BASS 3 FED #4

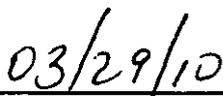
Analysis Date: 03/23/10
Sampling Date: 03/17/10 - 03/19/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 0.5°C
Sample Received By: JH
Analyzed By: CK

| LAB NUMBER | SAMPLE ID | Cl* (mg/kg) |
|-----------------------------|-----------|----------------|
| H19498-29 | C .15 | 384 |
| H19498-30 | NSW 3.05 | 5,320 |
| H19498-31 | NSW 3.10 | 15,800 |
| H19498-32 | NSW 3.15 | 6,320 |
| H19498-33 | NW 1.05 | 16 |
| H19498-34 | NW 1.15 | 464 |
| H19498-35 | NS 1.10 | 7,600 |
| H19498-36 | NS 2.05 | 14,000 |
| H19498-37 | NS 2.10 | 13,600 |
| H19498-38 | NSE 1.05 | 16 |
| H19498-39 | NSE 1.15 | 19,200 |
| H19498-40 | N 1.05 | 32 |
| H19498-41 | N 1.10 | 16 |
| H19498-42 | N 1.15 | 32 |
| Quality Control | | 480 |
| True Value QC | | 500 |
| % Recovery | | 96.0 |
| Relative Percent Difference | | < 0.1 |

METHOD: Standard Methods 4500-ClB

*Analyses performed on 1:4 w:v aqueous extracts.


Chemist


Date

H19498 Republic Backhoe

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REPUBLIC BACKHOE
 ATTN: ERIC GARCIA
 1513 W. ASPEN
 LOVINGTON, NM 88260
 FAX TO: (575) 396-7782

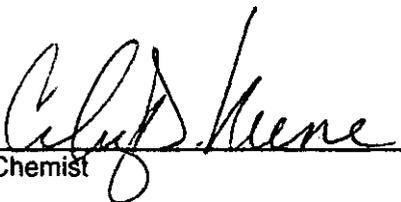
Receiving Date: 03/19/10
 Reporting Date: 03/26/10
 Project Owner: BOPCO L.P.
 Project Name: BASS 3 FED #4
 Project Location: BASS 3 FED #4

Analysis Date: 03/23/10
 Sampling Date: 03/17/10 - 03/19/10
 Sample Type: SOIL
 Sample Condition: COOL & INTACT @ 0.5°C
 Sample Received By: JH
 Analyzed By: CK

| LAB NUMBER | SAMPLE ID | Cl* (mg/kg) |
|-----------------------------|-----------|----------------|
| H19498-43 | N 2.05 | 880 |
| H19498-44 | N 2.10 | 4,720 |
| H19498-45 | N 2.15 | 9,600 |
| H19498-46 | NW 2.05 | 14,400 |
| H19498-47 | NW 3.05 | 20,800 |
| H19498-48 | NW 3.10 | 16,000 |
| H19498-49 | NW 3.15 | 7,200 |
| H19498-50 | NW 2.15 | 6,800 |
| H19498-51 | SS 2.07 | 48 |
| H19498-52 | SS 3.07 | 224 |
| H19498-53 | SSE 1.07 | 32 |
| H19498-54 | SS 1.02 | 112 |
| H19498-55 | SS 2.02 | 8,800 |
| H19498-56 | SS 3.02 | 9,200 |
| Quality Control | | 480 |
| True Value QC | | 500 |
| % Recovery | | 96.0 |
| Relative Percent Difference | | < 0.1 |

METHOD: Standard Methods 4500-CIB

*Analyses performed on 1:4 w:v aqueous extracts.


 Chemist

03/29/10
 Date

H19498 Republic Backhoe

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 analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 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 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.



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

ANALYTICAL RESULTS FOR
 REPUBLIC BACKHOE
 ATTN: ERIC GARCIA
 1513 W. ASPEN
 LOVINGTON, NM 88260
 FAX TO: (575) 398-7782

Receiving Date: 03/19/10
 Reporting Date: 03/29/10
 Project Owner: BOPCO L.P.
 Project Name: BASS 3 FED #4
 Project Location: BASS 3 FED #4

Sampling Date: 03/17/10 & 03/18/10
 Sample Type: SOIL
 Sample Condition: COOL & INTACT @ 0.5°C
 Sample Received By: JH
 Analyzed By: AB

| LAB NUMBER | SAMPLE ID | GRO (C ₈ -C ₁₀) (mg/kg) | DRO (>C ₁₀ -C ₂₈) (mg/kg) |
|-----------------------------|-----------|--|--|
| ANALYSIS DATE: | | 03/23/10 | 03/23/10 |
| H19498-1 | NE 2.10 | <10.0 | <10.0 |
| H19498-2 | NE 2.15 | <10.0 | <10.0 |
| H19498-3 | W 2.05 | <10.0 | <10.0 |
| H19498-4 | W 2.10 | <10.0 | <10.0 |
| H19498-5 | W 2.15 | <10.0 | <10.0 |
| H19498-6 | W 1.05 | <10.0 | <10.0 |
| H19498-7 | W 1.10 | <10.0 | <10.0 |
| Quality Control | | 486 | 491 |
| True Value QC | | 500 | 500 |
| % Recovery | | 97.2 | 98.2 |
| Relative Percent Difference | | 2.9 | 0.5 |

METHOD: SW-846 8015 M Reported on wet weight.

Eric Garcia
 Chemist

03/29/10
 Date

H19498 TPH8015 RBS

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ARDINAL LABORATORIES

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

ANALYTICAL RESULTS FOR
REPUBLIC BACKHOE
ATTN: ERIC GARCIA
1513 W. ASPEN
LOVINGTON, NM 88260
FAX TO: (575) 396-7782

Receiving Date: 03/19/10
Reporting Date: 03/29/10
Project Owner: BOPCO L.P.
Project Name: BASS 3 FED #4
Project Location: BASS 3 FED #4

Sampling Date: 03/17/10 & 03/19/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 0.5°C
Sample Received By: JH
Analyzed By: AB

| LAB NUMBER | SAMPLE ID | GRO | DRO |
|-----------------------------|-----------|---|---|
| | | (C ₆ -C ₁₀) (mg/kg) | (>C ₁₀ -C ₂₈) (mg/kg) |
| ANALYSIS DATE: | | 03/24/10 | 03/24/10 |
| H19498-8 | W 1.15 | <10.0 | <10.0 |
| H19498-9 | E 2.05 | <10.0 | <10.0 |
| H19498-10 | E 2.10 | <10.0 | <10.0 |
| H19498-11 | E 2.15 | <10.0 | <10.0 |
| H19498-12* | E 3.05 | <10.0 | <10.0 |
| H19498-13 | E 3.10 | <10.0 | <10.0 |
| H19498-14 | E 3.15 | <10.0 | <10.0 |
| H19498-15 | SE 1.05 | <10.0 | <10.0 |
| H19498-16 | SE 1.10 | <10.0 | <10.0 |
| Quality Control | | 506 | 535 |
| True Value QC | | 500 | 500 |
| % Recovery | | 101 | 107 |
| Relative Percent Difference | | 1.7 | 4.8 |

METHOD: SW-846 8015 M Reported on wet weight.

*One or more TPH surrogates outside historical limits due to matrix interference.


Chemist

03/29/10
Date

H19498 TPH8015 RBS

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 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.



ANALYTICAL RESULTS FOR
 REPUBLIC BACKHOE
 ATTN: ERIC GARCIA
 1513 W. ASPEN
 LOVINGTON, NM 88260
 FAX TO: (575) 396-7782

Receiving Date: 03/19/10
 Reporting Date: 03/29/10
 Project Owner: BOPCO L.P.
 Project Name: BASS 3 FED #4
 Project Location: BASS 3 FED #4

Sampling Date: 03/17/10 - 03/19/10
 Sample Type: SOIL
 Sample Condition: COOL & INTACT @ 0.5°C
 Sample Received By: JH
 Analyzed By: AB

| LAB NUMBER | SAMPLE ID | GRO (C ₆ -C ₁₀) (mg/kg) | DRO (>C ₁₀ -C ₂₈) (mg/kg) |
|-----------------------------|-----------|--|--|
| ANALYSIS DATE: | | 03/25/10 | 03/25/10 |
| H19498-17* | SE 1.15 | <10.0 | <10.0 |
| H19498-18* | SE 2.05 | <10.0 | <10.0 |
| H19498-19 | SE 2.10 | <10.0 | <10.0 |
| H19498-20 | SE 2.15 | <10.0 | <10.0 |
| H19498-21 | SW 2.05 | <10.0 | <10.0 |
| H19498-22 | SW 2.10 | <10.0 | <10.0 |
| H19498-23 | SW 2.15 | <10.0 | <10.0 |
| H19498-24 | SW 1.05 | <10.0 | <10.0 |
| H18498-25 | SW 1.10 | <10.0 | <10.0 |
| H19498-26* | SW 1.15 | <10.0 | <10.0 |
| H19498-27 | C .05 | <10.0 | <10.0 |
| H19498-28 | C .10 | <10.0 | <10.0 |
| H19498-29 | C .15 | <10.0 | <10.0 |
| H19498-30 | NSW 3.05 | <10.0 | <10.0 |
| H19498-31 | NSW 3.10 | <10.0 | <10.0 |
| H19498-32 | NSW 3.15 | <10.0 | <10.0 |
| H19498-33 | NW 1.05 | <10.0 | <10.0 |
| H19498-34 | NW 1.15 | <10.0 | <10.0 |
| H19498-35 | NS 1.10 | <10.0 | <10.0 |
| H19498-36 | NS 2.05 | <10.0 | <10.0 |
| Quality Control | | 448 | 414 |
| True Value QC | | 500 | 500 |
| % Recovery | | 89.6 | 82.8 |
| Relative Percent Difference | | 2.5 | 9.4 |

METHOD: SW-846 8015 M Reported on wet weight.

*One or more TPH surrogates outside historical limits due to matrix interference.

Chemist

03/29/10
 Date

H19498 TPH8015 RBS

ANALYTICAL RESULTS FOR
REPUBLIC BACKHOE
ATTN: ERIC GARCIA
1513 W. ASPEN
LOVINGTON, NM 88260
FAX TO: (575) 396-7782

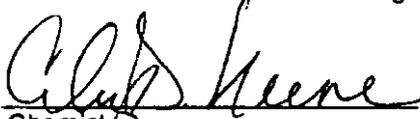
Receiving Date: 03/19/10
Reporting Date: 03/29/10
Project Owner: BOPCO L.P.
Project Name: BASS 3 FED #4
Project Location: BASS 3 FED #4

Sampling Date: 03/17/10 & 03/18/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 0.5°C
Sample Received By: JH
Analyzed By: AB/CK

| LAB NUMBER | SAMPLE ID | GRO | DRO |
|-----------------------------|-----------|---|---|
| | | (C ₆ -C ₁₀) (mg/kg) | (>C ₁₀ -C ₂₈) (mg/kg) |
| ANALYSIS DATE: | | 03/26/10 | 03/26/10 |
| H19498-37 | NS 2.10 | <10.0 | <10.0 |
| H19498-38 | NSE 1.05 | <10.0 | <10.0 |
| H19498-39 | NSE 1.15 | <10.0 | <10.0 |
| H19498-40 | N 1.05 | <10.0 | <10.0 |
| H19498-41 | N 1.10 | <10.0 | <10.0 |
| H19498-42 | N 1.15 | <10.0 | <10.0 |
| H19498-43 | N 2.05 | <10.0 | <10.0 |
| H19498-44 | N 2.10 | <10.0 | <10.0 |
| H19498-45 | N 2.15 | <10.0 | <10.0 |
| H19498-46 | NW 2.05 | <10.0 | <10.0 |
| H19498-47 | NW 3.05 | <10.0 | <10.0 |
| H19498-48 | NW 3.10 | <10.0 | <10.0 |
| H19498-49* | NW 3.15 | <10.0 | <10.0 |
| H19498-50 | NW 2.15 | <10.0 | <10.0 |
| H19498-51 | SS 2.07 | <10.0 | <10.0 |
| H19498-52 | SS 3.07 | <10.0 | <10.0 |
| H19498-53 | SSE 1.07 | <10.0 | <10.0 |
| H19498-54 | SS 1.02 | <10.0 | <10.0 |
| H19498-55 | SS 2.02 | <10.0 | <10.0 |
| H19498-56 | SS 3.02 | <10.0 | 18.5 |
| Quality Control | | 481 | 378 |
| True Value QC | | 500 | 500 |
| % Recovery | | 96.2 | 75.6 |
| Relative Percent Difference | | 0.5 | 2.0 |

METHOD: SW-846 8015 M Reported on wet weight.

*One or more TPH surrogates outside historical limits due to matrix interference.


Cheryl Keene
Chemist

03/29/10
Date

H19498 TPH8015 RBS



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 Fax (575) 393-2476

| BILL TO | | ANALYSIS REQUEST | |
|--|--|--|--|
| Company Name: <u>Public Buckhoe</u> Project Manager: <u>Eric Garcia</u> Address: <u>1513 W Osage</u> City: <u>Louisiana</u> State: <u>NM</u> Zip: <u>88240</u> Phone #: <u>575-393-0131</u> Fax #: <u>575-393-0131</u> Project #: _____ Project Owner: <u>Barlo LP</u> Project Name: <u>Pass 3 Bed #4</u> Project Location: <u>Pass 3 Bed #4</u> Sampler Name: <u>Eric Garcia</u> | | P.O. #: _____ Company: <u>Basco L.P.</u> Attn: <u>Tony</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ | |
| FOR LAB USE ONLY Lab I.D. <u>Sample I.D.</u> | | MATRIX (G)RAB OR (C)OMP _____ # CONTAINERS _____ GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ | PRESERV. ACID/BASE _____ ICE / COOL _____ OTHER: _____ |
| DATE <u>3/19</u> TIME <u>2.15</u> | | DATE <u>3/19</u> TIME <u>3.05</u> | |
| <u>12 E 3.10</u> | | <u>13 E 3.10</u> | |
| <u>14 E 3.15</u> | | <u>15 SE 1.05</u> | |
| <u>16 SE 1.10</u> | | <u>17 SE 1.15</u> | |
| <u>18 SE 2.05</u> | | <u>19 SE 2.10</u> | |
| <u>20 SE 2.15</u> | | <u>21</u> | |
| <u>22</u> | | <u>23</u> | |
| <u>24</u> | | <u>25</u> | |
| <u>26</u> | | <u>27</u> | |
| <u>28</u> | | <u>29</u> | |
| <u>30</u> | | <u>31</u> | |
| <u>32</u> | | <u>33</u> | |
| <u>34</u> | | <u>35</u> | |
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| <u>90</u> | | <u>91</u> | |
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| <u>96</u> | | <u>97</u> | |
| <u>97</u> | | <u>98</u> | |
| <u>98</u> | | <u>99</u> | |
| <u>99</u> | | <u>100</u> | |

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Received By: _____ Date: _____ Time: _____

Received By: Eric Garcia Date: 3/19/10 Time: 5:10

Temp: _____ Sample Condition: _____
 Cool Intact: Yes No

Checked By: _____

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

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

REMARKS:

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

#26



CARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 Fax (575) 393-2476

| BILL TO | | | ANALYSIS REQUEST | | | | | | | | | | | | | | |
|--------------------------------------|-----------|-------------|------------------|--------------|-------------|------------|----------|------|------|--|--|--|--|--|--|--|--|
| P.O. #: | | | | | | | | | | | | | | | | | |
| Company: <u>Public Backhoe</u> | | | | | | | | | | | | | | | | | |
| Attn: <u>Tom</u> | | | | | | | | | | | | | | | | | |
| Address: <u>513 Walspen</u> | | | | | | | | | | | | | | | | | |
| City: <u>Lovington</u> | | | | | | | | | | | | | | | | | |
| State: <u>NM</u> | | | | | | | | | | | | | | | | | |
| Phone #: <u>505-738-2</u> | | | | | | | | | | | | | | | | | |
| Fax #: <u>505-738-2</u> | | | | | | | | | | | | | | | | | |
| Project #: | | | | | | | | | | | | | | | | | |
| Project Name: <u>Bass 3rd #1</u> | | | | | | | | | | | | | | | | | |
| Project Location: <u>Bass 3rd #1</u> | | | | | | | | | | | | | | | | | |
| Sampler Name: <u>Eric Garcia</u> | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP | # CONTAINERS | MATRIX | PRESEV | SAMPLING | DATE | TIME | | | | | | | | |
| | H19498-21 | SW 2.05 | | | SOIL | ICE / COOL | | 3/17 | I | | | | | | | | |
| | 22 | SW 2.10 | | | WASTEWATER | ACID/BASE | | 3/17 | I | | | | | | | | |
| | 23 | SW 2.15 | | | GROUNDWATER | OTHER: | | 3/18 | I | | | | | | | | |
| | 24 | SW 1.05 | | | SLUDGE | OTHER: | | | | | | | | | | | |
| | 25 | SW 1.10 | | | OIL | | | | | | | | | | | | |
| | 26 | SW 1.15 | | | WASTEWATER | | | | | | | | | | | | |
| | 27 | Q 0.5 | | | SOIL | | | | | | | | | | | | |
| | 28 | Q .10 | | | GROUNDWATER | | | | | | | | | | | | |
| | 29 | C .15 | | | WASTEWATER | | | | | | | | | | | | |
| | 30 | NSW 3.05 | | | SLUDGE | | | | | | | | | | | | |

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

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Sampler Relinquished: _____ Date: _____ Received By: _____
 Relinquished By: Eric Garcia Time: _____
 Received By: Jodi Jensen Date: 3/19/10
 Title: 5.10
 Delivered By: (Circle One) _____
 Sampler - UPS - Bus - Other: _____
 Phone Result: No Add'l Phone #:
 Fax Result: No Add'l Fax #:
 REMARKS:

Received By: Jodi Jensen
 Title: 5.10
 Sample Condition: 1.50
 Cool Intact: Yes No
 Checked By: [Signature]

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

#26



CARDINAL LABORATORIES

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

| BILL TO | | | ANALYSIS REQUEST | | | | | | |
|---|-----------|-------------|--|--------------|-------------|---------|----------|------|------|
| Company Name: <u>The Public Backhoe</u> | | | P.O. #: | | | | | | |
| Project Manager: <u>Eric Garcia</u> | | | Company: <u>BOCALP</u> | | | | | | |
| Address: <u>1513 W Aspen</u> | | | Attn: <u>Tony</u> | | | | | | |
| City: <u>Louington</u> | | | Address: | | | | | | |
| State: <u>WV</u> | | | City: | | | | | | |
| Zip: <u>26020</u> | | | State: | | | | | | |
| Phone #: <u>316-7782</u> | | | Phone #: | | | | | | |
| Fax #: <u>316-0131</u> | | | Fax #: | | | | | | |
| Project #: <u>BOCALP</u> | | | Project Owner: <u>BOCALP</u> | | | | | | |
| Project Name: <u>Bass 3 bed #4</u> | | | Project Location: <u>Bass 3 bed #4</u> | | | | | | |
| Sampler Name: <u>Eric Garcia</u> | | | Project Location: <u>Bass 3 bed #4</u> | | | | | | |
| FOR LAB USE ONLY | Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP | # CONTAINERS | MATRIX | PRESERV | SAMPLING | DATE | TIME |
| | H19478-31 | N SW 3.10 | | | GROUNDWATER | | | 3/18 | X |
| | 32 | NSW 3.15 | | | WASTEWATER | | | 3/17 | X |
| | 33 | NW 1.05 | | | SOIL | | | 3/18 | X |
| | 34 | NW 1.15 | | | OIL | | | | |
| | 35 | NS 1.10 | | | SLUDGE | | | | |
| | 36 | NS 2.05 | | | OTHER: | | | | |
| | 37 | NS 2.10 | | | ACID/BASE: | | | | |
| | 38 | NSE 1.05 | | | ICE / COOL | | | | |
| | 39 | NSE 1.15 | | | OTHER: | | | | |
| | 40 | N 1.05 | | | | | | | |

PLEASE NOTE: Liability and Damages. Customer's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims involving these for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Sampler Relinquished: _____ Date: _____ Time: _____

Received By: Randy Garcia Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____

Delivered By: (Circle One) Eric Garcia

Sampler - UPS - Bus - Other: _____

Checked By: Eric Garcia

Sample Condition: Yes No

Cool/Intact: Yes No

Phone Result: No Add'l Phone #:

Fax Result: No Add'l Fax #:

REMARKS:

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

#26



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 Fax (575) 393-2476

| | | | | | |
|--|--------------------|--|---|--------------------------------|-------------|
| Company Name: <u>Republic Backhoe</u> Project Manager: <u>Eric Garcia</u> Address: <u>1513 W. Aspen</u> State: <u>NM</u> Zip: <u>88400</u> City: <u>Doerington</u> Phone #: <u>505-631-0131</u> Fax #: _____ Project #: _____ Project Name: <u>Bass 3 Fed #4</u> Project Location: <u>Bass 3 Fed #4</u> Sampler Name: <u>ERC</u> | | BILL TO P.O. #: _____ Company: <u>BORCOCP</u> Attn: <u>Tony</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ | | ANALYSIS REQUEST | |
| FOR LAB USE ONLY Lab I.D. | Sample I.D. | MATRIX <input type="checkbox"/> GROUNDWATER <input checked="" type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER: _____ | PRESERV. <input type="checkbox"/> ACID/BASE <input type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER: _____ | SAMPLING DATE | TIME |
| 41 | N 1.10 | | | 3/18 | |
| 42 | N 1.15 | | | | |
| 43 | N 2.05 | | | | |
| 44 | N 2.10 | | | | |
| 45 | N 2.15 | | | | |
| 46 | NW 2.05 | | | 3/17 | |
| 47 | NW 3.05 | | | | |
| 48 | NW 3.10 | | | | |
| 49 | NW 3.15 | | | | |
| 50 | NW 2.15 | | | | |

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Sampler Relinquished: _____ **Date:** _____ **Received By:** _____

Relinquished By: Andy Garcia **Temp:** 5°C **Sample Condition:** Cool Intact

Delivered By: (Circle One) Eric Garcia **Checked By:** Eric Garcia (Initials)

Sampler - UPS - Bus - Other: _____

Phone Result: No Add'l Phone #:
Fax Result: No Add'l Fax #:
REMARKS:

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

#26



**ARDINAL
LABORATORIES**

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

June 15, 2010

Eric Garcia
Republic Backhoe
1513 West Aspen
Lovington, NM 88260

Re: Bass 3 #4

Enclosed are the results of analyses for sample number H20058, received by the laboratory on 06/08/10 at 11:35 am.

Cardinal Laboratories is accredited through Texas NELAP for:

| | |
|--------------------|--|
| Method SW-846 8021 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method SW-846 8260 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method TX 1005 | Total Petroleum Hydrocarbons |

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 524.2 | Regulated VOCs (V2, V3) |

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 5 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.

ANALYTICAL RESULTS FOR
REPUBLIC BACKHOE SERVICES
ATTN: ERIC GARCIA
1513 W. ASPEN
LOVINGTON, NM 88260

Receiving Date: 06/08/10
Reporting Date: 06/14/10
Project Number: NOT GIVEN
Project Name: BASS 3 #4
Project Location: BASS 3 #4

Analysis Date: 06/11/10
Sampling Date: NOT GIVEN
Sample Type: SOIL
Sample Condition: INTACT @ 13°C
Sample Received By: JH
Analyzed By: AB

| LAB NUMBER | SAMPLE ID | Cl ⁻ (mg/kg) |
|-----------------------------|-------------|----------------------------|
| H20058-1 | MA-EAST #1 | <16 |
| H20058-2 | MA-SOUTH #1 | 16 |
| H20058-3 | MA-SW #1 | <16 |
| H20058-4 | MA-NE #1 | 160 |
| H20058-5 | MA-SE #1 | 32 |
| H20058-6 | MA-N #1 | 528 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Quality Control | | 500 |
| True Value QC | | 500 |
| % Recovery | | 100 |
| Relative Percent Difference | | 7.4 |

METHOD: Standard Methods 4500-ClB

Note: Analyses performed on 1:4 w:v aqueous extracts.


Chemist


Date

H20058 CL Republic Backhoe

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ANALYTICAL RESULTS FOR
 REPUBLIC BACKHOE SERVICES
 ATTN: ERIC GARCIA
 1513 W. ASPEN
 LOVINGTON, NM 88260

Receiving Date: 06/08/10
 Reporting Date: 06/14/10
 Project Number: NOT GIVEN
 Project Name: BASS 3 #4
 Project Location: BASS 3 #4

Analysis Date: 06/11/10
 Sampling Date: NOT GIVEN
 Sample Type: SOIL
 Sample Condition: INTACT @ 13°C
 Sample Received By: JH
 Analyzed By: AB

| LAB NUMBER | SAMPLE ID | Cl ⁻ (mg/kg) |
|-----------------------------|--------------|----------------------------|
| H20058-7 | MA-W #1 | 64 |
| H20058-8 | MA-NW #1 | 64 |
| H20058-9 | RO= #1 | 48 |
| H20058-10 | RO= WEST #1A | 80 |
| H20058-11 | RO-WEST 2A. | <16 |
| H20058-12 | RO-WEST 3A. | 96 |
| H20058-13 | RO-SOUTH 1A. | <16 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Quality Control | | 500 |
| True Value QC | | 500 |
| % Recovery | | 100 |
| Relative Percent Difference | | <0.1 |

METHOD: Standard Methods 4500-Cl⁻B

Note: Analyses performed on 1:4 w:v aqueous extracts.

Cheryl S. Kume
 Chemist

06/15/10
 Date

H20058 CL Republic Backhoe

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

Company Name: Republic Backhoe Services
Project Manager: Eric Garcia
Address: 1513 W. Aspen
City: Youngstown
State: Wn **Zip:** 80260
Phone #: 575 631-0131 **Fax #:**
Project #:
Project Name: Bass 3 #1
Project Location: Bass 3 #4
Sampler Name: Eric Garcia

Project Owner:
Company: Bopco
Attn:
Address:
City:
State:
Phone #:
Fax #:

Matrix: SOIL WASTEWATER GROUNDWATER SLUDGE OTHER:
Preserv: ICE/COOL ACID/BASE OTHER:
Container: (G)RAB OR (C)OMP. # CONTAINERS

| Lab I.D. | Sample I.D. | DATE | TIME |
|----------|-------------|------|------|
| H20058-1 | MA-6-1 #1 | | |
| 2 | MA-6-2 #1 | | |
| 3 | MA-6-3 #1 | | |
| 4 | MA-6-4 #1 | | |
| 5 | MA-6-5 #1 | | |
| 6 | MA-6-6 #1 N | | |
| 7 | MA-6-7 #1 | | |
| 8 | MA-6-8 #1 | | |
| 9 | RO-6-9 #1 | | |
| 10 | RO-6-10 #1A | | |

Received By: [Signature]
Date: 6/8/10
Time: 11:35
Received By: Jodi Jensen
Date: 6/8/10
Time: 11:35
Sample Condition: Cool Intact
Checked By: [Signature]
Sampler - UPS - Bus - Other: [Signature]

Relinquished By: [Signature]
Delivered By: (Circle one)
Phone Result: Yes No **Phone #:**
Fax Result: Yes No **Fax #:**

REMARKS: Call Eric 631-0131
Also, call Tony Souvrie 432-556-8730

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

#26

Soil Boring SB-3

Boring SB-3

Depth below ground surface



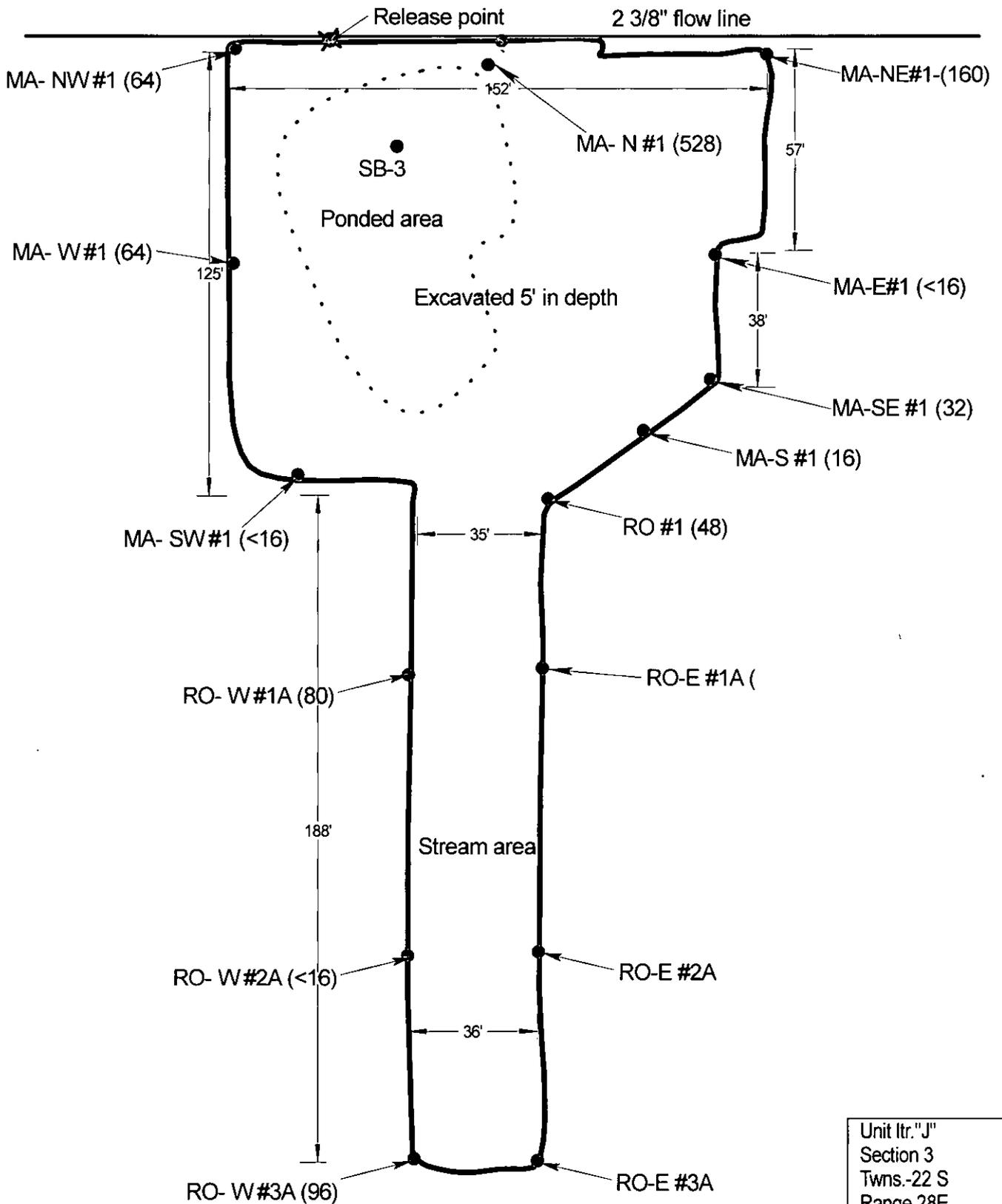
| Soil Columns | Chloride Field Test | PID Reading | Petroleum Odor | Petroleum Stain | Soil Description |
|--------------|---------------------|-------------|----------------|-----------------|---|
| | | LAB CI | None | None | |
| | >2,424 | | None | None | 0 - 20' - Sand and sandstone, tan to reddish brown, very fine grained, moist |
| | >2,424 | | None | None | |
| | (>2,424) | 4720 | None | None | |
| | >2,424 | | None | None | |
| | >2,500 | | None | None | |
| | >2,500 | | None | None | |
| | (>2,500) | 6240 | None | None | |
| | >2,500 | | None | None | |
| | >2,500 | | None | None | 20 - 85' - Sand and sandstone, tan to reddish brown, very fine grained |
| | >2,500 | | None | None | |
| | (>2,500) | 6480 | None | None | |
| | >2,500 | | None | None | |
| | >2,500 | | None | None | |
| | (>2,500) | 7440 | None | None | |
| | >2,500 | | None | None | 85 - 110' - Sand and sandstone, tan to reddish brown, very fine grained with clay |
| | (>2,500) | 11,000 | None | None | |
| | >2,500 | | None | None | |
| | (924) | 1250 | None | None | |
| | 676 | | None | None | |
| | (1,664) | 2240 | None | None | |
| | | | None | None | |
| | (212) | 144 | None | None | 115 - 120' - Clay, red to grey, silty, dry |
| | (ND) | 48 | None | None | 120 - 125' - Clay, red, tite, dry |

Date Drilled: April 26, 2010
 Thickness of Bentonite Seal: 125 Ft
 Depth of Exploratory Boring: 125 Ft bgs
 Depth to Groundwater: _____
 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 monitor well 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.



Unit ltr. "J"
 Section 3
 Twns.-22 S
 Range 28E
 County-Eddy, N.M.
 GPS
 Lat- N 32.419741
 Long-W 104.071838

Approximate
 Scale 1"= 40' **N**


 BOPCO. L.P.
 A Bass Legacy Company

SITE PLAN: Bass 3 Federal #4
Lea County Area

Spill #1
 Figure 2-Chlorides



ARDINAL LABORATORIES

PHONE (575) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

May 4, 2010

Camille Bryant
Basin Environmental Consulting, LLC.
2800 Plains Hwy.
Lovington, NM 88260

Re: Bass 3 Federal #4 Spill #1 (BOPCO)

Enclosed are the results of analyses for sample number H19779, received by the laboratory on 04/29/10 at 2:50 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

| | |
|--------------------|--|
| Method SW-846 8021 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method SW-846 8260 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method TX 1005 | Total Petroleum Hydrocarbons |

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 524.2 | Regulated VOCs (V2, V3) |

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director



ARDINAL LABORATORIES

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

ANALYTICAL RESULTS FOR
BASIN ENVIRONMENTAL CONSULTING, LLC
ATTN: CAMILLE BRYANT
2800 PLAINS HWY
LOVINGTON, NM 88260
FAX TO: (575) 396-1429

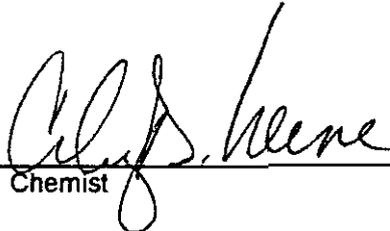
Receiving Date: 04/29/10
Reporting Date: 05/04/10
Project Owner: BOPCO
Project Name: BASS 3 FEDERAL #4 SPILL #1
Project Location: EDDY CO., NM

Analysis Date: 05/04/10
Sampling Date: 04/27/10 & 04/28/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 3°C
Sample Received By: JH
Analyzed By: HM

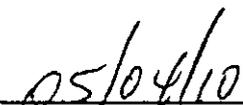
| LAB NO. | SAMPLE ID | Cl ⁻ (mg/kg) |
|-----------------------------|-------------|----------------------------|
| H19779-1 | SB-3 @ 20' | 4,720 |
| H19779-2 | SB-3 @ 40' | 6,240 |
| H19779-3 | SB-3 @ 60' | 6,480 |
| H19779-4 | SB-3 @ 80' | 7,440 |
| H19779-5 | SB-3 @ 90' | 11,000 |
| H19779-6 | SB-3 @ 100' | 1,250 |
| H19779-7 | SB-3 @ 110' | 2,240 |
| H19779-8 | SB-3 @ 120' | 144 |
| H19779-9 | SB-3 @ 125' | 48 |
| Quality Control | | 500 |
| True Value QC | | 500 |
| % Recovery | | 100 |
| Relative Percent Difference | | < 0.1 |

| | |
|--------------------------|----------|
| METHOD: Standard Methods | 4500-ClB |
|--------------------------|----------|

Note: Analyses performed on 1:4 w:v aqueous extracts.
Not accredited for Chloride.



Chemist



Date

H19779 Basin Environmental

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ANALYTICAL RESULTS FOR
 BASIN ENVIRONMENTAL CONSULTING, LLC
 ATTN: CAMILLE BRYANT
 2800 PLAINS HWY
 LOVINGTON, NM 88260
 FAX TO: (575) 396-1429

Receiving Date: 04/29/10
 Reporting Date: 05/03/10
 Project Owner: BOPCO
 Project Name: BASS 3 FEDERAL #4 SPILL #1
 Project Location: EDDY CO., NM

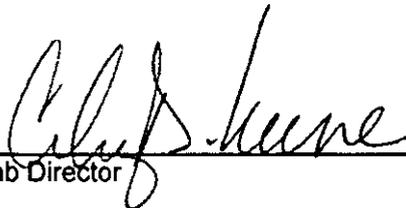
Sampling Date: 04/27/10
 Sample Type: SOIL
 Sample Condition: COOL & INTACT @ 3°C
 Sample Received By: JH
 Analyzed By: AB/ZL

| LAB NO. | SAMPLE ID | GRO (C ₆ -C ₁₀) (mg/kg) | DRO (>C ₁₀ -C ₂₈) (mg/kg) | DRO ext. (>C ₂₈ -C ₃₅) (mg/kg) | BENZENE (mg/kg) | TOLUENE (mg/kg) | ETHYL BENZENE (mg/kg) | TOTAL XYLENES (mg/kg) |
|---------|-----------|--|--|---|--------------------|--------------------|-----------------------------|-----------------------------|
|---------|-----------|--|--|---|--------------------|--------------------|-----------------------------|-----------------------------|

| ANALYSIS DATE: | 04/30/10 | 04/30/10 | 04/30/10 | 04/30/10 | 04/30/10 | 04/30/10 | 04/30/10 |
|-----------------------------|----------|----------|----------|----------|----------|----------|----------|
| H19779-1 SB-3 @ 20' | <10.0 | <10.0 | <10.0 | <0.050 | <0.050 | <0.050 | <0.300 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Quality Control | 585 | 580 | - | 0.059 | 0.054 | 0.054 | 0.161 |
| True Value QC | 500 | 500 | - | 0.050 | 0.050 | 0.050 | 0.150 |
| % Recovery | 117 | 116 | - | 118 | 108 | 108 | 107 |
| Relative Percent Difference | 0.1 | 0.6 | - | 4.3 | 3.8 | 6.0 | 6.5 |

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Reported on wet weight. Not accredited for GRO/DRO/DRO ext.


 Lab Director


 Date

H19779 TPHextBTEX BASIN

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