

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
100 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 ☒ Final Report

Name of Company: Chaparral Energy LLC.	Contact: Derek Presley	
Address: 701 Cedar Lake Blvd. Oklahoma City, OK 73114	Telephone No.: (405) 426-4091 x 1491	
Facility Name: Yates State #2	Facility Type: oil well active	
Surface Owner: NMSLO	Mineral Owner	Lease No.:

LOCATION OF RELEASE

Unit Letter H	Section 16	Township 12S	Range 38E	Feet from the 2310'	North/South Line NORTH	Feet from the 330'	East/West Line EAST	County LEA
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Latitude: 33.2796459383444

Longitude: -103.09452468313

NATURE OF RELEASE

Type of Release: OIL & PRODUCE WATER	Volume of Release: 15BBLS	Volume Recovered: 10BBLS
Source of Release: Cable on rod rotator broke up in high winds, wrapped up around 1" nipple on pumping "T", on upstroke broke 1" nipple and continued pumping.	Date and Hour of Occurrence: 1-30-12 5:00am	Date and Hour of Discovery: 1-30-12 5:00am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? ETNM will set up C-141 and report to Geoffery Leking @ NMOCD Hobbs & NMSLO on return of signed C-141	
By Whom? Mr. Will Palmer	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

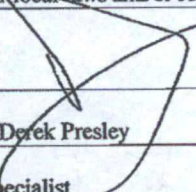

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Leak was caused when cable on rod rotator broke up in high winds, wrapped up around 1" nipple on pumping "T", on upstroke 1" nipple broke and continued to pump, well was shut down and nipple repaired. The leak was contained within the location berms and affected an area of approx. 20'W x 60'L.

Describe Area Affected and Cleanup Action Taken.*

CLEAN UP ACTION: Chaparral contracted ETNM to delineate and clean up the spill site. NMOCD approved the protocol submit by ETNM for Chaparral. The site was excavated in accordance to the approved protocol. NMOCD required that Chaparral completely clean up the areas outside of the spill boundaries to within NMOCD regulations, sample the bottom and walls, install bentonite matting within the excavation and backfill the site. The site was backfilled, compacted using a vibro roller. The location berms along with the battery berms were dressed up and the location cleaned. Due to the bentonite matting any remaining ground impact will not be detrimental to the ground water.

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  Approved by District Supervisor Environmental Specialist	
Printed Name: Derek Presley	Approval Date: 7/11/13	Expiration Date: -
Title: Safety Specialist	Conditions of Approval: -	Attached <input type="checkbox"/>
E-mail Address: derek.presley@chaparralenergy.com		IRP-2-12-2781
Date: 9-13-12	Phone: (405) 426-4091 x 1491	

* Attach Additional Sheets If Necessary

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Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Chaparral Energy LLC.	Contact: Derek Presely
Address: 701 Cedar Lake Blvd. Oklahoma City, OK 73114	Telephone No.: (405) 426-4091 X 1491
Facility Name: Yates State #2	Facility Type: oil well active

Surface Owner: STATE	Mineral Owner:	Lease No.:
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LOCATION OF RELEASE

Unit Letter: H	Section 16	Township 12S	Range 38E	Feet from the 2310'	North/South Line NORTH	Feet from the 330'	East/West Line EAST	County LEA
-------------------	---------------	-----------------	--------------	------------------------	---------------------------	-----------------------	------------------------	---------------

Latitude: N33.2796459383444 Longitude: W103.09452468313

NATURE OF RELEASE

DEPTH TO GROUND WATER: 8' > 20' BGS

Type of Release: oil & produce water	Volume of Release: 15bbbls	Volume Recovered: 10bbbls
Source of Release: cable on rod rotator broke up high, wrapped up around 1" nipple on pumping "T", on upstroke broke 1" nipple and continued to pump	Date and Hour of Occurrence: 1-30-12 5:00am	Date and Hour of Discovery: 1-30-12 5:00am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? ETNM will set up C-141 and report to Geoffery Leking @ NMOCD Hobbs & NMSLO on return of signed initial C-141	
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.*

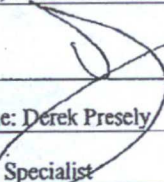

Describe Cause of Problem and Remedial Action Taken.*

Leak was caused when cable on rod rotator broke up high, wrapped up around 1" nipple on pumping "T", on upstroke broke 1" nipple and continued to pump. Pump jack shut down and repaired broken nipple, Chaparral Energy Crew headed to site to perform surface clean up.

Describe Area Affected and Cleanup Action Taken.* leak area centralized on well pad just south of pump jack, an area of approx. 20'W x 60'L about 1200sqft affected.

CLEAN UP ACTION: Earth Technologies of New Mexico contracted to delineate and setup cleanup plan for Chaparral

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: Derek Presely		ENV SPECIALIST: Approved by District Supervisor: 	
Title: Safety Specialist		Approval Date: 02/01/12	Expiration Date: 04/01/12
E-mail Address: derek.presely@chaparralenergy.com		Conditions of Approval: SUBMIT FINAL C-141 BY 04/01/12	Attached <input type="checkbox"/> IRP-2-12-2781
Date: 1-31-12	Phone: (575) 396-3221		

* Attach Additional Sheets If Necessary



Earth Technologies of New Mexico Inc.
(A Whole Earth Environmental Inc. Co.)

Closure Report

CHAPARRAL ENERGY LLC,
Yates State #2 LEAK
UL/H SEC 16 - T12S - R38E
GPS LAT & LON WGS84
WN33.279669° / 103.094595°
NMOCD 1RP-2781

approved
Jeffrey Sekim
Environmental Specialist
NMOCD-DIST 1
7/11/13



Earth Technologies of New Mexico
(A Whole Earth Environmental Inc. Company)
904 West Humble St.
Hobbs, New Mexico 88240
713-560-6076
royr@vadose.us

March 22, 2012

New Mexico Oil Conservation Division
Hobbs District Office
1625 French Drive
Hobbs, NM 88240

Attn: Mr. Geoffrey Leking

Reference: 1RP-2781 Chaparral Yates State #2 Leak

Dear Mr. Leking:

Enclosed, please find a final closure copy of our remediation report for the Chaparral Energy LLC.
Yates State #2 Lea located in Lea County, New Mexico.

Thank you again for the opportunity of working with you on this project.

Warmest personal regards,

Roy R. Rascon
President
Earth Technologies of New Mexico



Executive Summary

Chaparral Energy LLC.

1RP-2781 Chaparral Yates State #2 Leak

Location:

The site is located approximately two point five seven (2.57) miles northwest of Bronco, Texas, located in Lea County, New Mexico. The site is situated on New Mexico State Land Office Trust which is leased by Mr. Tommy Burrus. The primary land use is grazing of cattle; however extensive oil and gas operations are prevalent in the area. The area is semi-arid with a net precipitation / evaporation amount of -73" per year. The legal description is UL/H, S-16, T-12S, R-38E. Depth to groundwater is estimated to be approximately 20' to 30' below ground surface.

History

On or about 1-30-12 the pumper for the Chaparral Yates St. #2 Lease discovered a leak onsite. Overnight severe wind and rain in the area blew the rod rotator cable off of the pump jack tie down point allowing the cable to remain on the rotator. The cable became entangled to a 1" nipple on the well head connections, and with the pump jack continuing to pump on the upstroke broke the 1" nipple allowing produce water and oil to spill onto the ground. Upon discovering the spill the pumper shut in the well and had the nipple replaced and restarted the well. The spill was contained to the location pad and was centralized around the well head and to the south of the pump jack base covering an area of 20'W x 60'L totaling 1200 square feet. An approximate amount of liquids spilled was reported at 15 barrels of produce water and oil, with 10 barrels being recovered. The recovered water and oil was disposed of properly and Chaparral had a crew on site to sop up the spill area by covering and back dragging the spill site to prevent further migration of contaminants. Earth Technologies of New Mexico Inc. (ETNM) was then contacted by Chaparral to make the initial C-141, report the leak to NMOCD & NMSLO and began site investigation, EM survey, properly delineate the site vertically and horizontally, set up a protocol and present to the NMOCD & NMSLO for approval.

NMOCD Ranking Score

The New Mexico Oil Conservation Division Site Assessment Ranking Score for this site is 20.

Delineation Activities

Upon contact from Chaparral of the spill, ETNM was onsite to photograph the site, prepare driving direction, and GPS the site for documentation. A spill report was prepared for NMOCD approved by Chaparral and submitted to Geoffrey Leking NMOCD Hobbs District Office. An EM38 (0'>5') survey was ran over the leak area allowing approximately 45' as a buffer area between the leak area and the edge of the actual spill area. The EM38 survey area consisted of approximately 112' n&s x 160' e&w, with a total of 18,368sqft. The site was then delineated by using ETNM's bore machine and boring in the two highest reading areas within the leak area and one bore in the lowest reading area for background reading. Various samples from the bores were sent to Cardinal Labs in Hobbs, NM for third party confirmation. Although the EM38 survey showed an anomaly outside and surrounding the leak area this area was not investigated or delineated as it was outside of the initial leak area and much larger than the spill area and there was insufficient amount of water or oil to impact such a large area.

A protocol was prepared and approved by Chaparral Energy LLC., prior to presenting to Geoffrey Leking at the NMOCD Hobbs District Office. The protocol was approved by Mr. Leking and then given to Bill Sonnamaker at the NMSLO in Hobbs for approval. Mr. Sonnamaker then sent the NMOCD approved protocol to Santa Fe for Mr. Steven Ikeda's approval.

Upon approval from all regulatory agencies, a bidding process was initiated. The awarded bidder Tatum Backhoe Services (TBS) of Tatum, NM, made the required NMOCD Call. After waiting the required forty eight hours ETNM & TBS began excavating the spill site. The initial spill site was excavated in accordance to the approved NMOCD protocol to a depth of 5'bgs, which contained the highest cl- readings per field titration and was hauled off to GMI Inc Disposal, and returning with clean caliche to be used as a location cap and mix and blend material, the walls and bottom were sampled field titrated and sent to the lab for third party confirmation. Upon receiving lab results ETNM approached Mr. Leking in an effort to close out the site, since the excavated spill site was going to be lined on the bottom of the excavation with Geo-Synthetic Bentonite matting preventing any further downward migration. Mr. Leking then requested that ETNM further excavate the side walls and pull more samples and that the site could be backfilled with a mixture of clean and excavated material as long as the field cl- titrations were at 1500kg/mg cl- or lower. After numerous attempts to close out the site and further expansion of the excavation at the NMOCD request the walls were finally cleaned up to acceptable cl- levels which were not detrimental to ground water, along with the mixed and blended material for backfill. NMOCD approved the backfill of the site along with the Geo-Synthetic Bentonite liner.

Remediation

The highly cl- impacted area was excavated using a trackhoe and backhoe. The excavated material was hauled off to an approved NMOCD disposal Gandy Marley Inc. Disposal, with the return trip of clean caliche to be used as a mix and blend matrix for any of the remaining excavated material which was field titrated for cl- and third party confirmed to be within acceptable cl- limits for the NMOCD. The bottom of the excavation was lined using a Geo-Synthetic Bentonite liner, and then backfilled using the mixed and blended excavated material which met NMOCD requirements. Due to the very sandy consistency of the caliche hauled in from GMI Inc. disposal additional better quality caliche was hauled in to cap off the location pad. The berm surrounding the location was improved on, especially on the south side of the location where no berm was present to prevent any spills from escaping out into the pasture. The berm surrounding the battery was also improved on.

The total amount of excavated material hauled off to GMI disposal as highly contaminated material (cl-) was 1324cyds and the total haul back clean caliche material for capping, mixing and blending was 1205cyds.



Exhibit Index

1. Initial C-141
2. Final C-141
3. NMOCD Ranking Score Sheet
4. Water Data Map
5. Satellite Driving Directions
6. Satellite Close up View of Location
7. EM38 Survey & Bore Locations
8. Photo 1- Bore #1
9. Photo 2- Bore #1 & 2 Location
10. Photo 3- Bore #3 Location
11. Photo 4- Initial Excavation
12. Photo 5- Final Excavation with Bentonite Liner installed
13. Photo 6- Final Excavation with Bentonite Liner installed
14. Photo 7- Final Site Complete SW to E
15. Photo 7- Final Site Complete Battery walkway Center to SW
16. Photo 7- Final Site Complete Battery walkway Center to NW
17. Photo 7- Final Site Complete Battery walkway Center to N
18. Photo 7- Final Site Complete Battery walkway Center to NE
19. Field Titrations with Lab Results Pages 24 thru 31
20. Lab Results Pages 32 thru 55
21. PR-161

NMOCD SITE ASSESSMENT CRITERIA

Chaparral Energy LLC.

1RP-2781 Yates State #2

UL/H SEC16 - T12S - R38E

GPS LAT & LON WGS84 N33.2796459383444 / W103.09452468313

DTW: +/- 20'>30'BGS according to Cheron Texaco water data map for LEA Co.

DEPTH TO GROUND WATER

(Vertical distance from contaminants to seasonal high water elevation of ground water.)

Less than 50' BGS	(20 points)	20
50' to 99' BGS	(10 points)	0
Greater than 100' BGS	(0 points)	0

WELLHEAD PROTECTION AREA

(Less than 200' from a private domestic water source, or; less than 1000' from all other water sources)

YES	(20 points)	0
NO	(0 points)	0

DISTANCE TO SURFACE WATER BODY

(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals, and ditches)

Less than 200'	(20 points)	0
200' to 1000'	(10 points)	0
Greater than 1000'	(0 points)	0

RANKING SCORE TOTAL POINTS 20

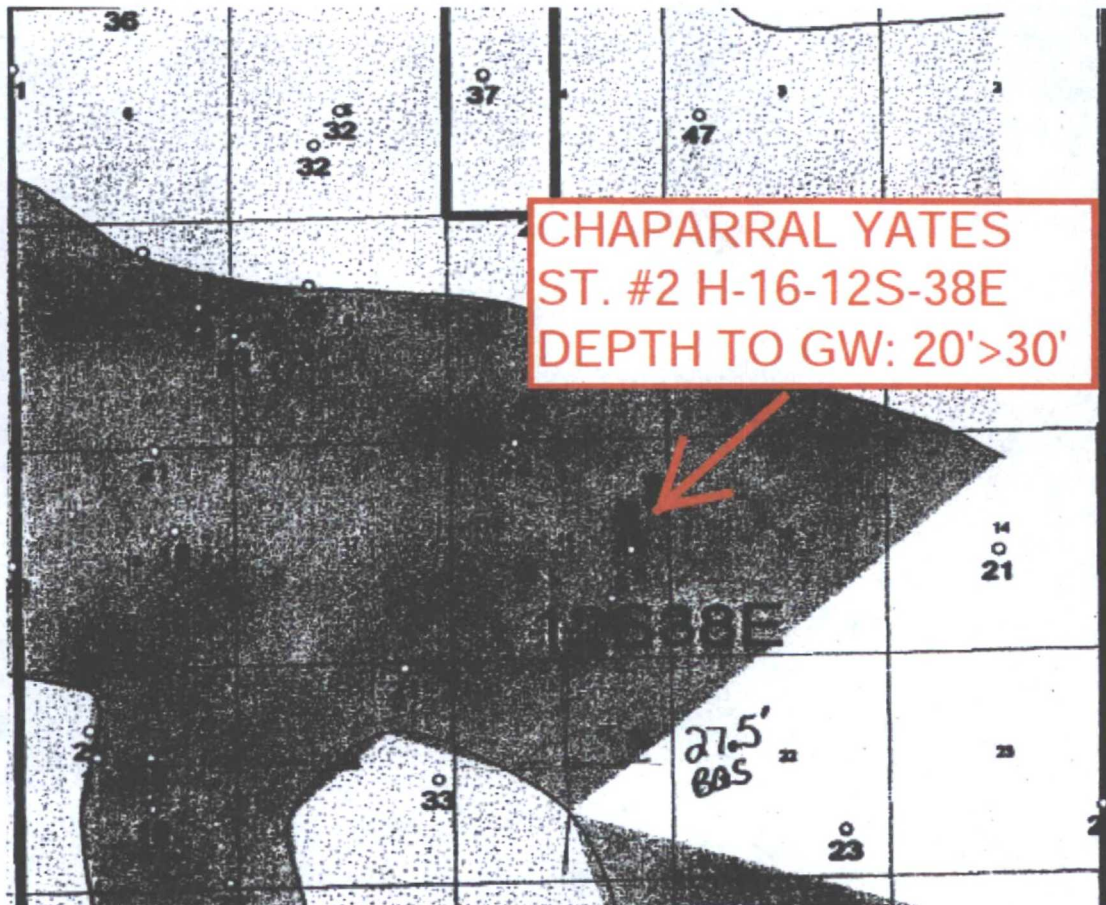
CLEAN - UP TARGET CONCENTRATIONS FOR "SITE CLOSURE"

IF RANKING SCORE IS:	> 19	10 - 19	0 - 9
BENZENE (ppm)*	10	10	10
BTEX (ppm)*	50	50	50
TPH (ppm)**	100	1000	5000

*A field vapor headspace measurement of 100 ppm may be substituted for a laboratory analysis.

** The contaminant concentration for TPH is the concentration above background levels.

CHAPARRAL ENERGY LLC.
YATES STATE #2
API# 30-025-30255
UL/H SEC 16 – T12S – R38E
GPS LAT & LON WGS84
N33.2796459383444 / W103.09452468313
DEPTH TO GW: 8' > 30'
ACCORDING TO CHEVRON/ TEXACO 2005 WATER DATA MAP



CHAPARRAL YATES STATE #2 LEAK

UL/H SEC 16 - T12S - R38E

GPS LAT & LON WGS84

WN33.279669° / 103.094595°

DRIVING DIRECTIONS: IN TATUM, NM @ INTERSECTION OF HWY 206 & 380 > R. ONTO HWY 380

GO 14.96MI TO INTERSECTION OF HWY380 & STATE LINE RD. 796 > L. GO 1.00MI > L. GO 2.0MI

> R GO 0.57MI TO LOCATION AT END OF ROAD

125

Biedsoer Hwy

380

Farm to Market Rd 769

Image ©2012 DigitalGlobe
©2012 Google
Texas Orthomage Program

Google earth

Imagery Date: 3/31/2008

lat: 33.294568 lon: 103.178312 elev: 3912 ft

Eye alt: 15.84 mi

2

Chaparral Yates St. #2

© 2013 Google

Google Earth

Imagery Date: 10/20/2012 lat: 33.279538° lon: -103.094518° elev: 3845 ft. eye alt: 4300 ft.

Chaparral Energy LLC.

Yates State #2

API#30-025-30255

UL/H Sec-16 - T12S - R38E

2310' FNL & 330' FEL

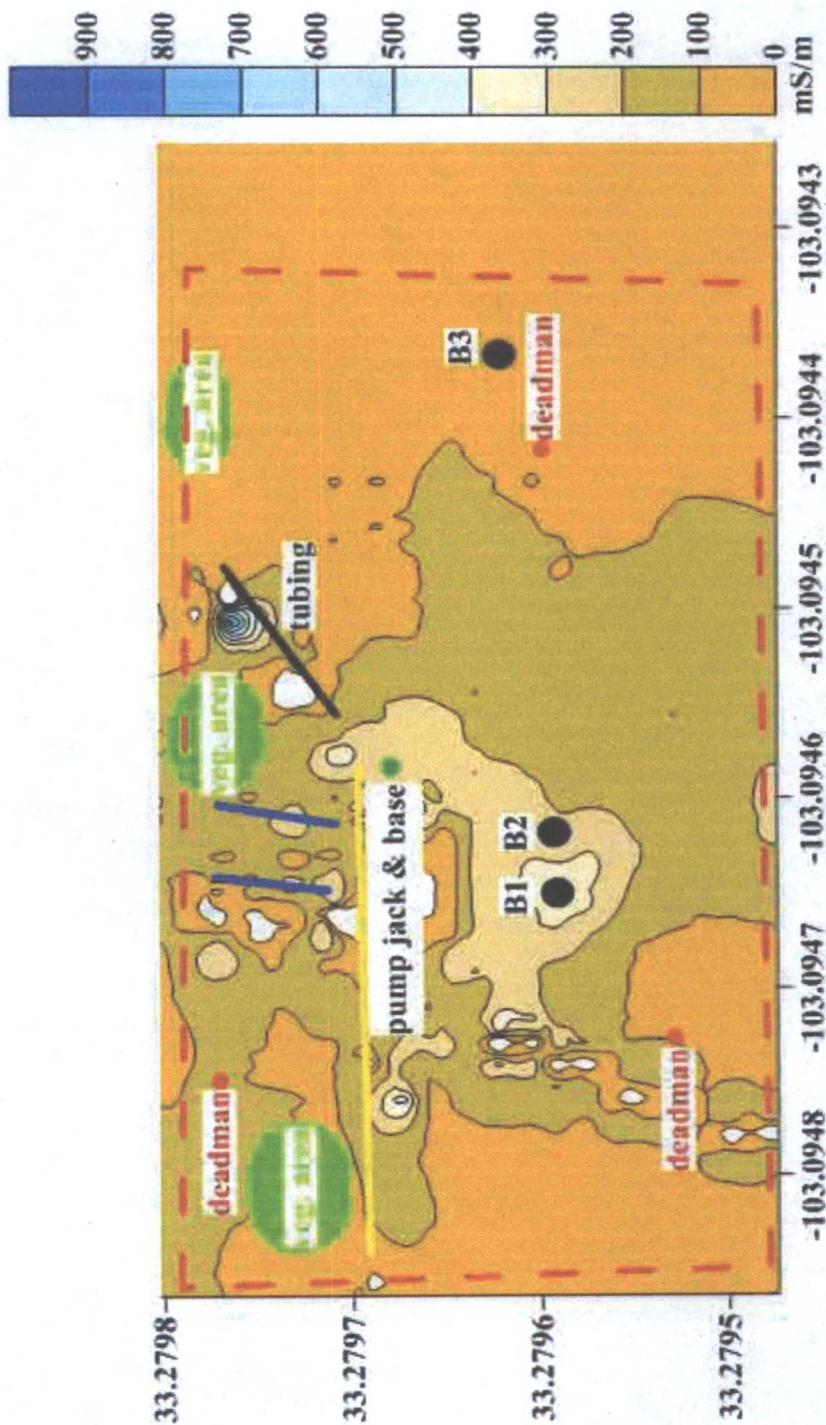
GPS Lat & Lon WGS84

N33.2796459383444 / W103.09452468313

Depth to GW: 8' > 20'

2-1-12 EM38 Survey Vertical

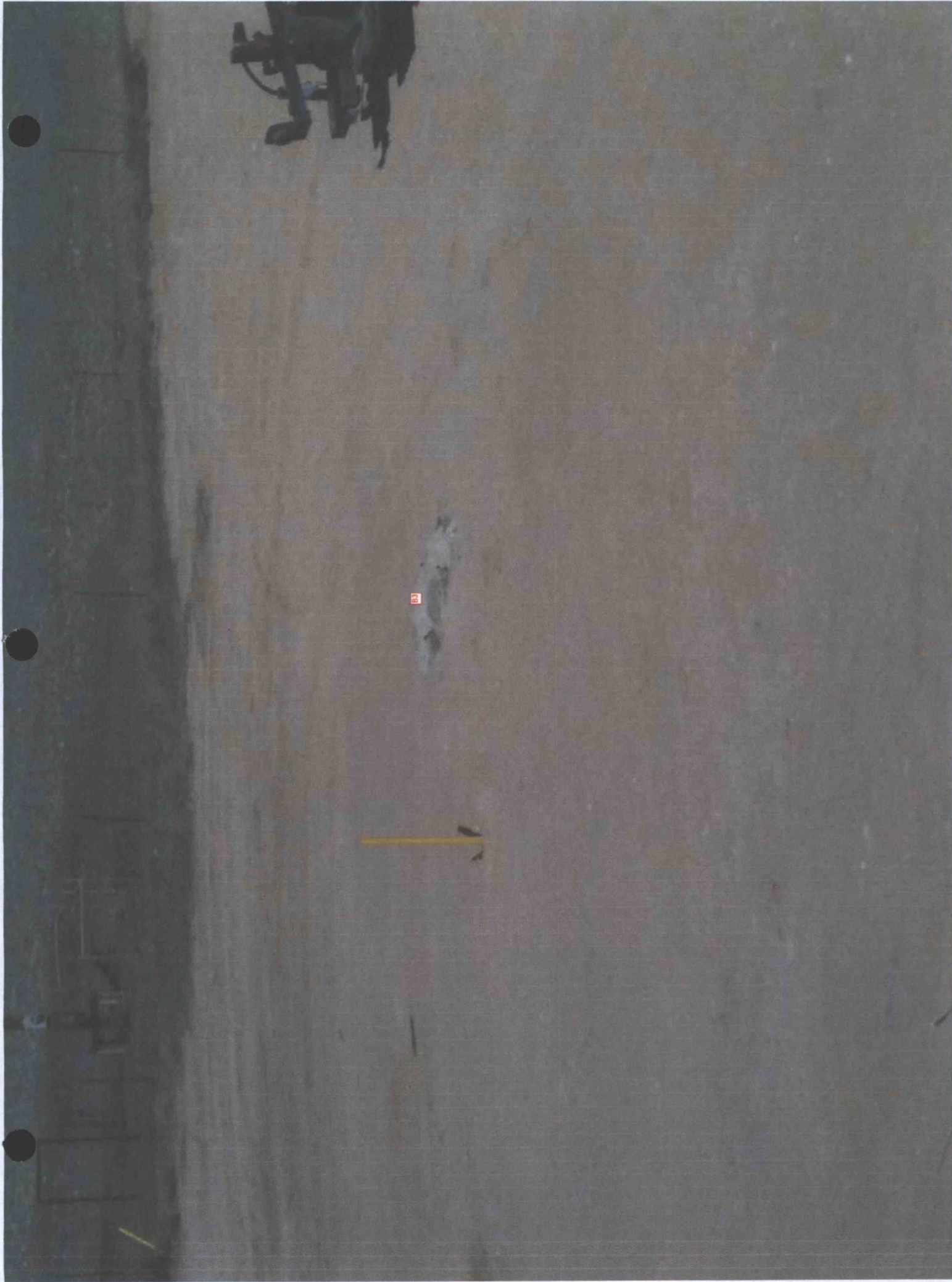
Bore Sites





moving large ships
from top of battery
walkway



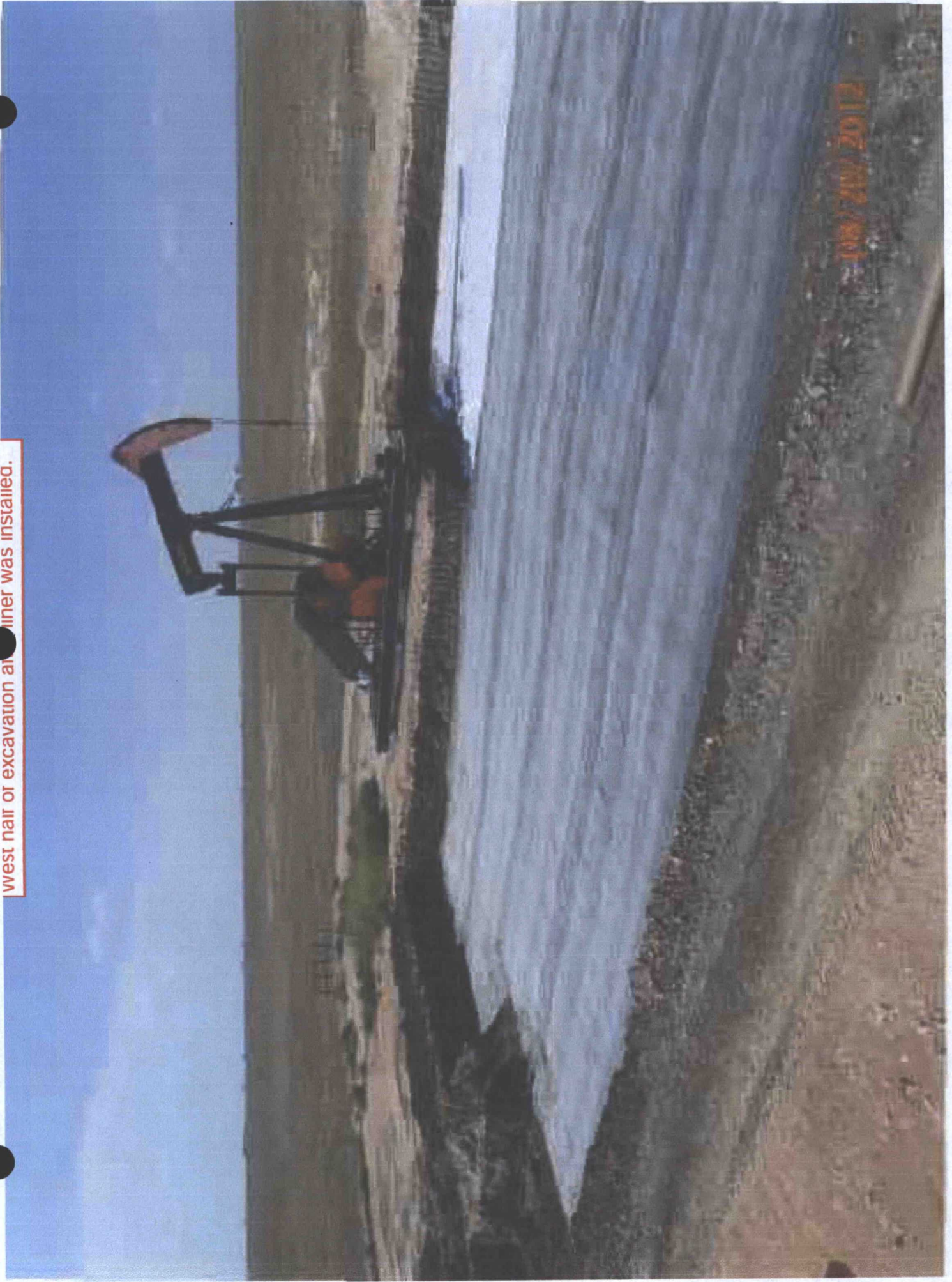


Excavation area prior to being squared off for sampling.

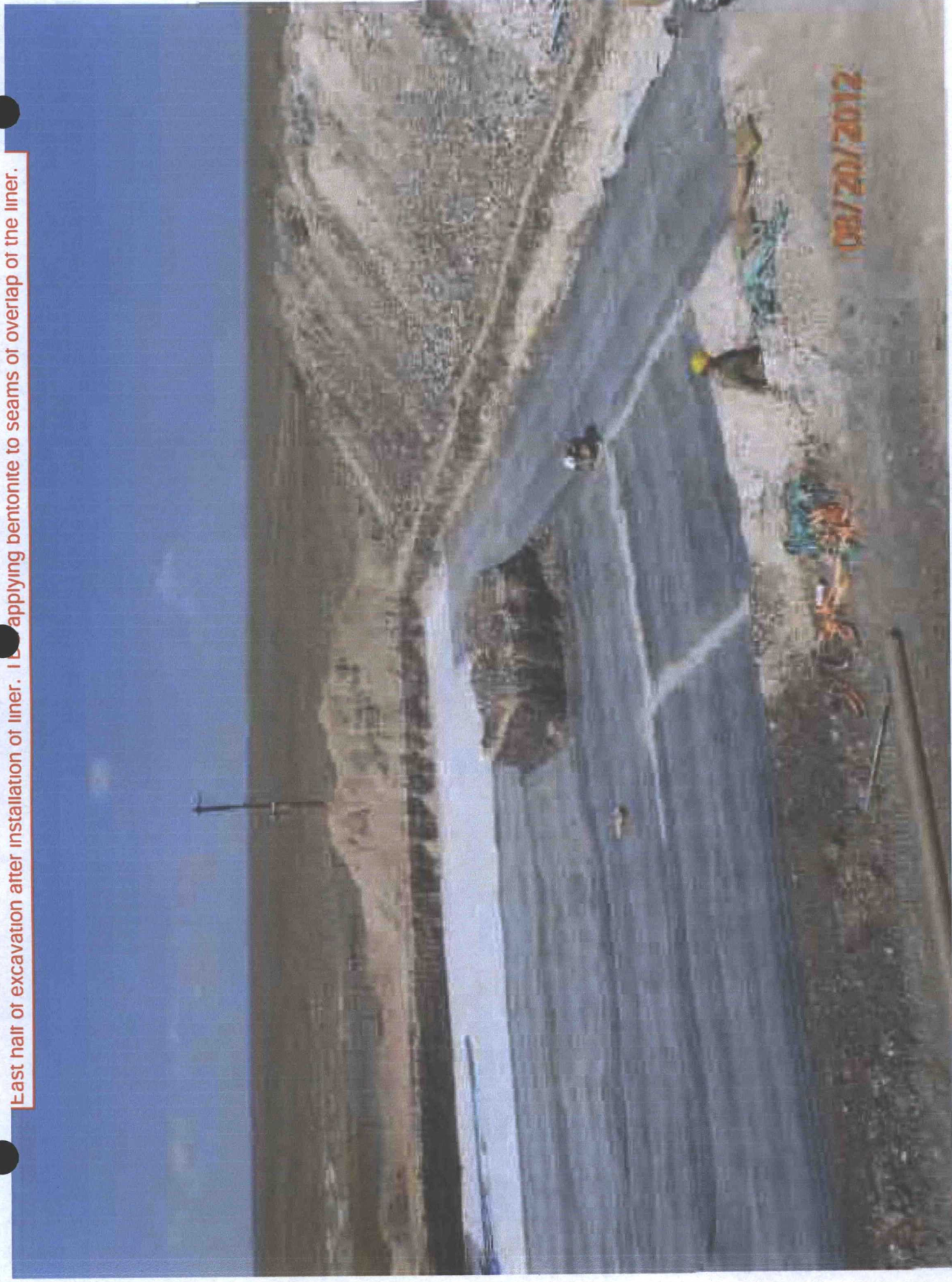


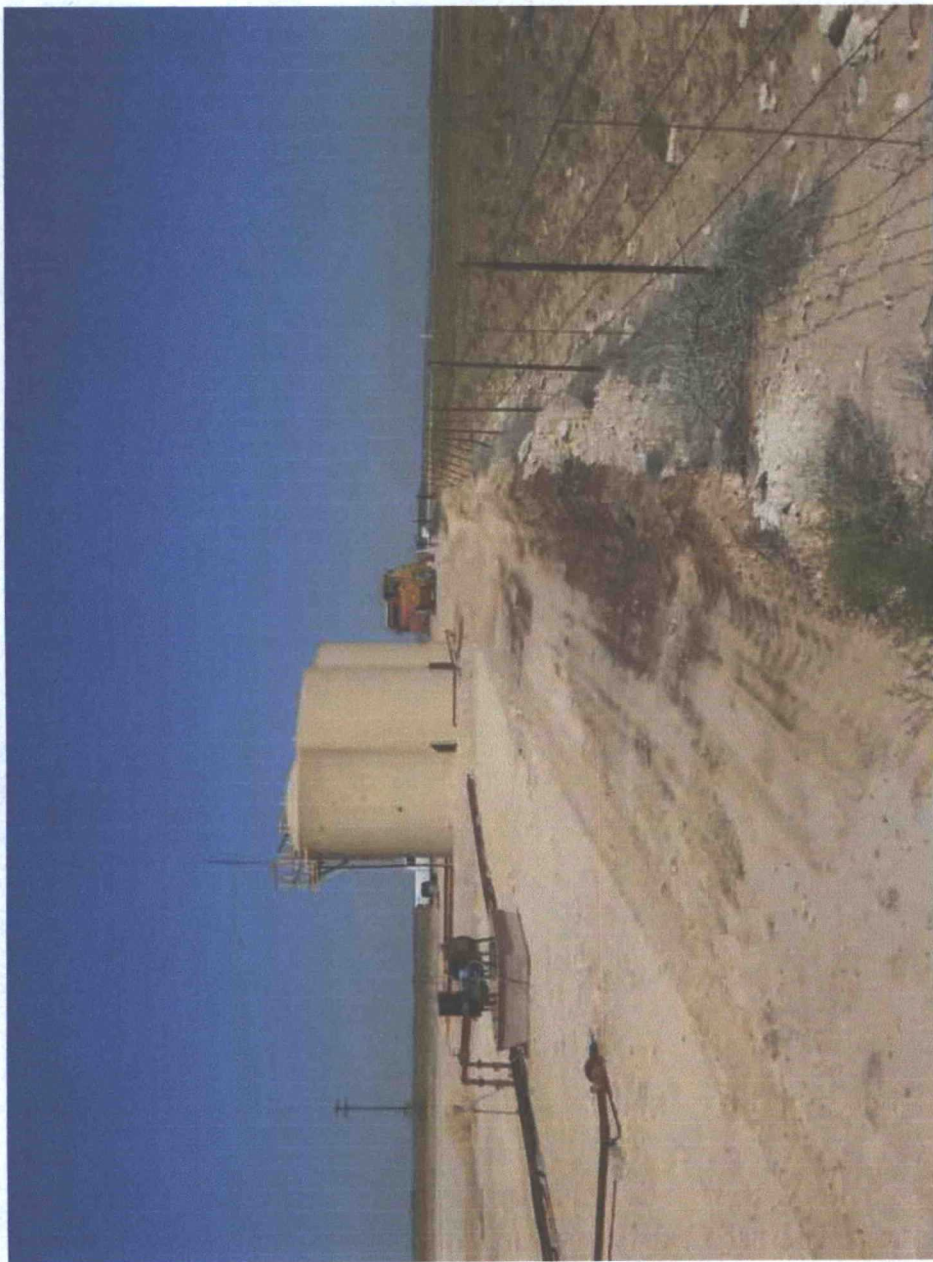
2108 PM / 40

west half of excavation and miner was installed.

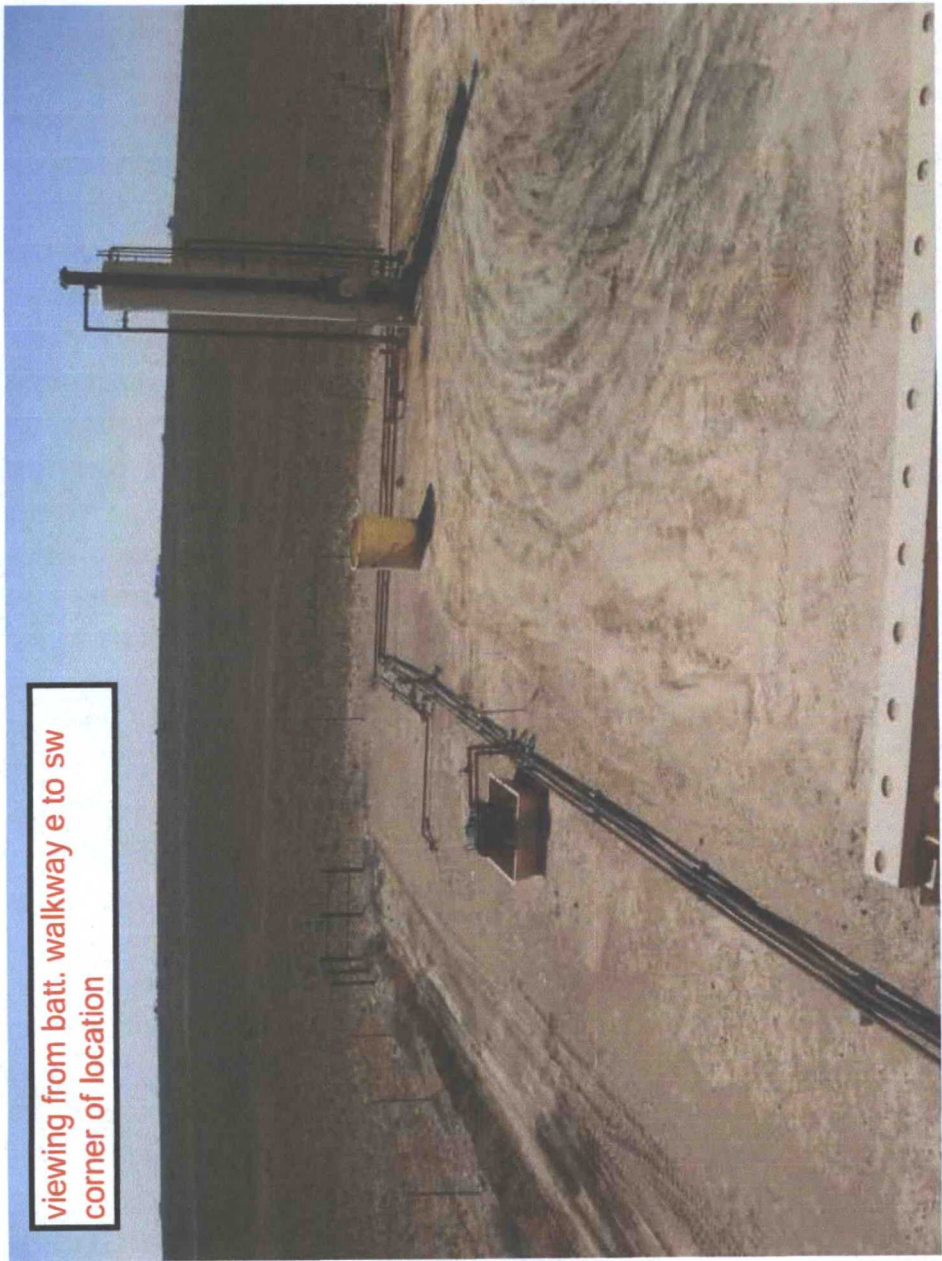


East half of excavation after installation of liner. | Applying bentonite to seams of overlap of the liner.

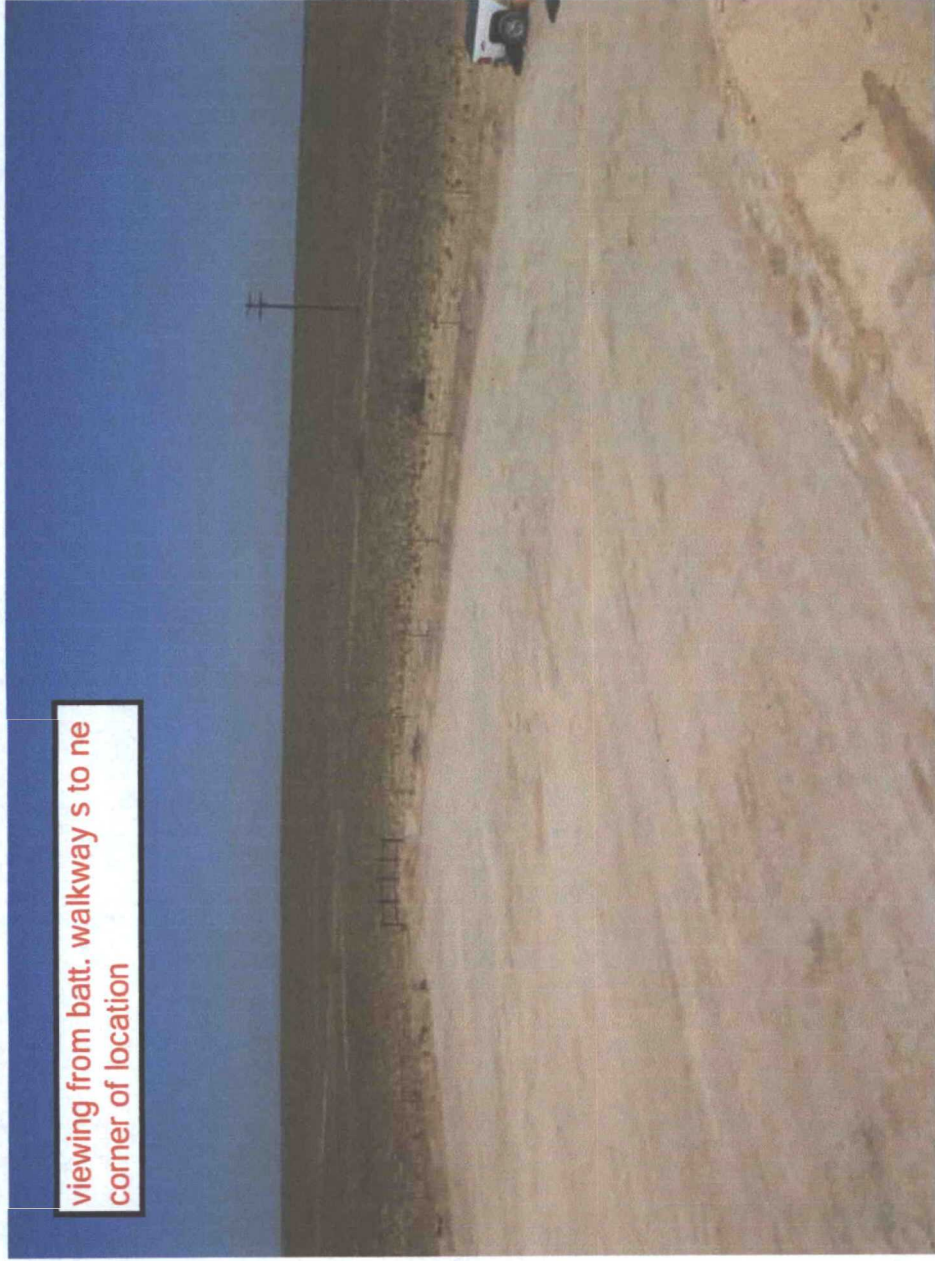




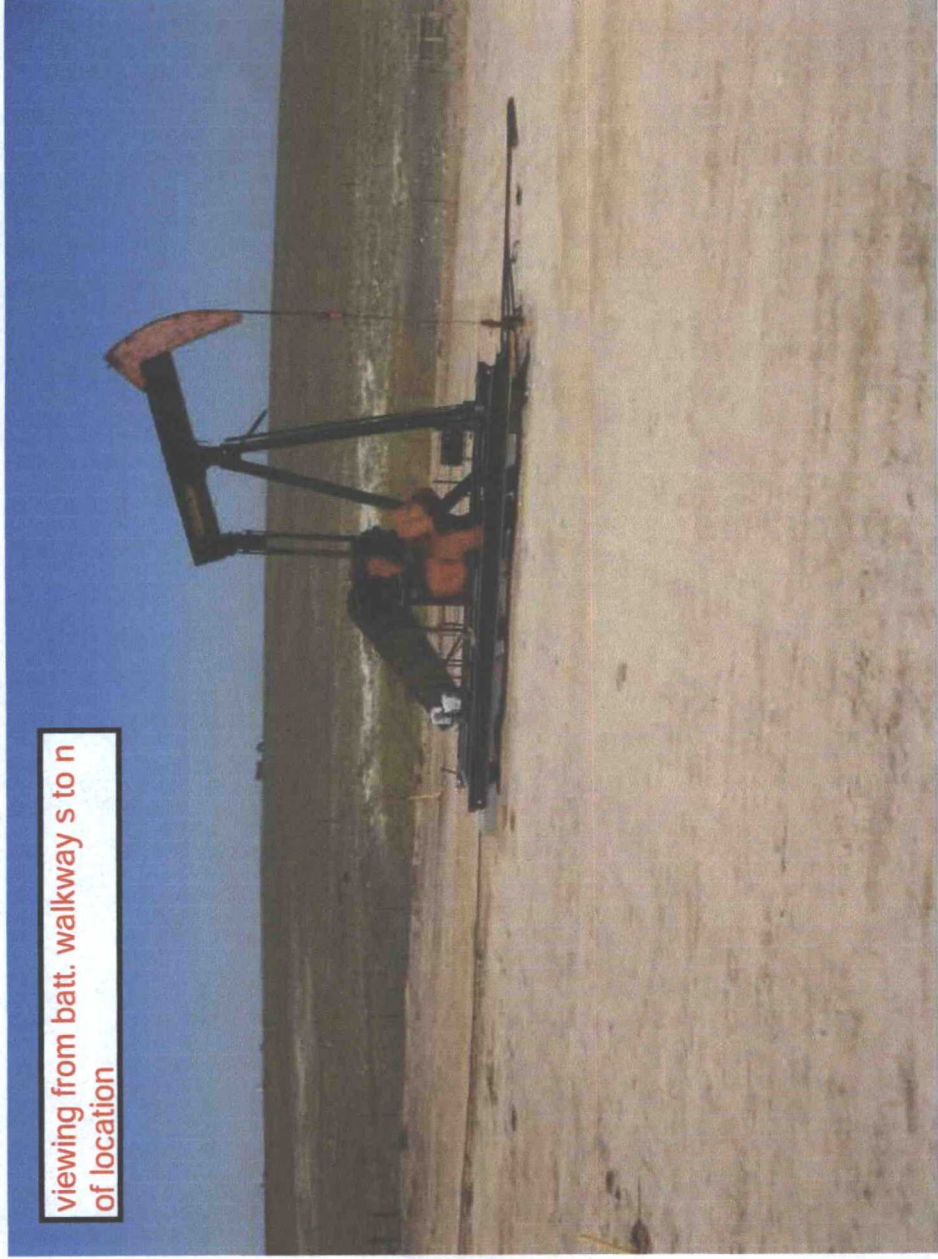
viewing from batt. walkway e to sw
corner of location



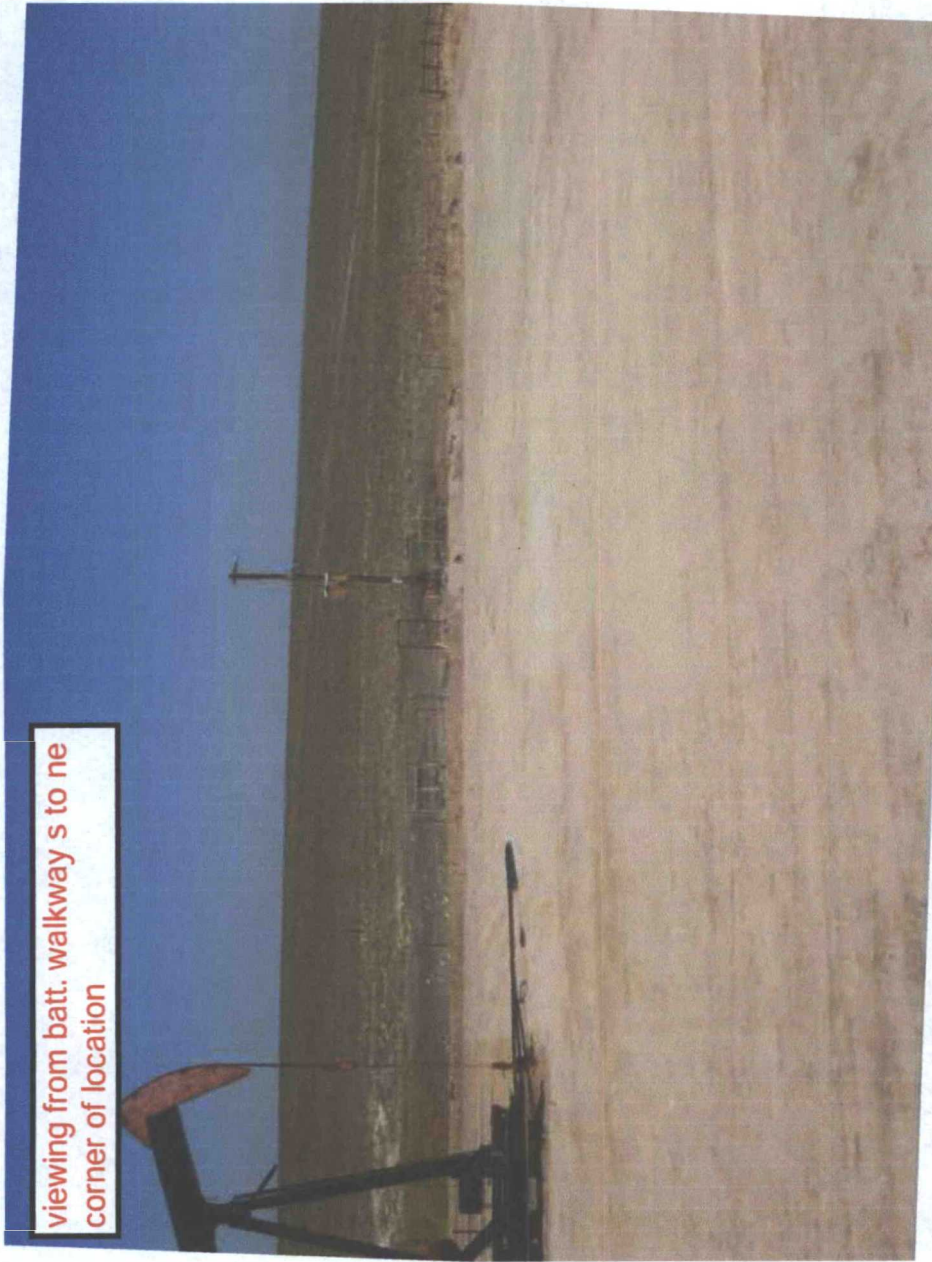
viewing from batt. walkway s to ne
corner of location



viewing from batt. walkway s to n
of location



viewing from batt. walkway s to ne
corner of location



EARTH TECHNOLOGIES OF NEW MEXICO

CL- FIELD TITRATION RESULTS

LOCATION: CHAPARRAL YATES STATE #2

2/15/2012

LAB RESULTS

Sample pt.	TIME	DEPTH	SOIL	WATER	CF	AGNO3	CL-	PID	SOIL LITHOLOGY	B	T	E	X	CL-	GRO	DRO
B1	850	Surface	10.1	27.1	2.68	0.66	3541	1163.0	5YR-6/4 light reddish brown rocky sandy sand damp	<0.500	8.71	16.4	49.8	4960		
	907	5'	10.6	26.5	2.50	0.4	2499	45.0	5YR-2.5/1 black clay wet							
	940	10'	10	31	3.10	0.18	1116	19.6	5YR-2.5/1 black clay wet							
	959	15'	10.4	25	2.40	0.05	240	13.4	5YR-4/3 reddish brown clayish sandy sand damp					224		
	1032	20'	10.1	30.6	3.03	0.04	242	9.4	5YR-4/3 reddish brown clayish sandy sand damp					96	<10.0	<10.0
B2	1048	Surface	10.5	23.9	2.28	1.08	4915	511.0	5YR-6/4 light reddish brown rocky sandy sand damp	<0.500	6.46	13.0	39.7	6240	820	4060
	1100	5'	10.2	27.5	2.70	0.19	1024	36.3	5YR-2.5/1 black clay wet							
	1123	10'	10.3	27.6	2.68	0.04	214	12.7	5YR-2.5/1 black clay wet							
	1141	15'	10.2	26.3	2.58	0.03	155	10.3	5YR-4/3 reddish brown clayish sandy sand damp					80.0		
	1200	Surface	10	24.4	2.44	0.05	244	3.5	5YR-7/4 pink lightly rocky sandy sand dry					128		
B3	1218	5'	10	25.5	2.55	0.06	306	5.4	5YR-6/1 gray rocky sandy sand dry							
	1241	10'	10.4	26.2	2.52	0.02	101	4.7	5YR-8/2 pinkish white sandy sand damp					32.0		

7/17/2012

Sample pt.	TIME	DEPTH	SOIL	WATER	CF	AGNO3	CL-	PID	SOIL LITHOLOGY	B	T	E	X	CL-	GRO	DRO
N Wall 5pt Comp. (Area A)	1259	6"	10.1	28.3	2.80	0.27	756	3.3	10YR-3/1 very dark gray sand damp							
E Wall 5pt Comp. (Area A)	124	6"	10	28	2.80	1.3	3639	2.3	10YR-3/1 very dark gray sand damp							
W Wall 5pt Comp. (Area A)	144	6"	10.2	24.6	2.41	0.15	362	4.6	10YR-3/1 very dark gray sand damp							
Floor Bottom 5pt Comp. (Area A)	205	6"	10.2	28	2.75	0.49	1345	110.0	10YR-3/1 very dark gray sand damp	<0.050	<0.050	0.061	0.061	1540	12.5	502
Walls 15pt Comp. (Area A)	340	6"	10.2	25.6	2.51	0.57	1430	2.5	10YR-3/1 very dark gray sand damp	<0.050	0.065	0.079	<0.150	2000	<10.0	30.7
N Wall 5pt Comp. (Area B)	225	6"	10.2	26.4	2.59	0.24	621	2.9	10YR-3/1 very dark gray sand damp							
E Wall 5pt Comp. (Area B)	240	6"	10.3	24.2	2.35	0.52	1221	2.4	10YR-3/1 very dark gray sand damp							
S Wall 5pt Comp. (Area A)	253	6"	10.1	25.6	2.53	0.59	1495	1.7	10YR-3/1 very dark gray sand damp							
W Wall 5pt Comp. (Area B)	300	6"	10.2	28.7	2.81	0.24	675	1.5	10YR-3/1 very dark gray sand damp	<0.050	<0.050	<0.050	<0.150	928	<10.0	<10.0
Walls 20pt Comp. (Area B)	400	6"	10	26	2.60	0.35	910	1.7	10YR-3/1 very dark gray sand damp							

7/17/2012

E Stockpile 10pt Comp.	1058	6"	10	26.8	2.68	0.53	1420	28.9	10YR-3/1 very dark gray sand damp							
S Stockpile 15pt Comp.	1045	6"	10.1	27.4	2.71	0.3	814	3.5	10YR-3/1 very dark gray sand damp							

7/19/2012

Sample pt.	TIME	DEPTH	SOIL	WATER	CF	AGNO3	CL-	PID	SOIL LITHOLOGY	B	T	E	X	CL-	GRO	DRO
N Wall 5pt Comp. (Area A)	150	6"	10	23	2.30	0.23	529	1.1	10YR-3/1 very dark gray sand damp							
N Wall 5pt Comp. (Area B)	1136	6"	10.2	26.8	2.63	0.22	578	1.3	10YR-3/1 very dark gray sand damp							
East Wall 5pt Comp. (Area B)	1119	6"@5' Wall	10.2	22.1	2.17	0.55	1191	1.5	10YR-3/1 very dark gray sand damp							
E Wall N.1/2 5pt Comp.	211	6"@10' Wall	10.2	25.2	2.47	0.29	716	1.4	10YR-3/1 very dark gray sand damp							
E Wall S.1/2 5pt Comp.	220	6"@10' Wall	10.3	25	2.43	0.43	1043	1.6	10YR-3/1 very dark gray sand damp							
E Wall 10pt Comp.	222	6"@10' Wall	10	24.9	2.49	0.32	797	1.4	10YR-3/1 very dark gray sand damp							

7/19/2012

S Wall 5pt Comp. (Area B)	944	6"@5' Wall	10	25.5	2.55	0.26	663	1.3	10YR-3/1 very dark gray sand damp							
	1034	6"@10' Wall	10.2	27.4	2.69	0.37	994	1.1	10YR-3/1 very dark gray sand damp							
S Wall W.1/2 5pt Comp.	113	6"@15' Wall	10	27.7	2.77	0.51	1412	1.2	10YR-3/1 very dark gray sand damp							
S Wall E.1/2 5pt Comp.	116	6"@15' Wall	10	27.2	2.72	0.82	2230	1.4	10YR-3/1 very dark gray sand damp							
S Wall 10pt Comp.	121	6"@15' Wall	10.1	27.7	2.74	0.56	1535	1.2	10YR-3/1 very dark gray sand damp							
W Wall 5pt Comp. (Area B)	924	6"@5' Wall	10	27.9	2.79	0.16	446	1.4	10YR-3/1 very dark gray sand damp							
	1008	6"@10' Wall	10.2	24.9	2.44	0.11	268	1.3	10YR-3/1 very dark gray sand damp							

7/20/2012

Stockpile 30pt Comp.	1212	6"	10	24.7	2.47	0.52	1284	3.7	10YR-4/2 dark grayish brown sand							
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7/28/2012

Sample pt.	TIME	DEPTH	SOIL	WATER	CF	AGNO3	CL-	PID	SOIL LITHOLOGY	B	T	E	X	CL-	GRO	DRO
W Wall 5pt Comp. (Area A)	854	6"	10.1	28.8	2.85	0.15	428	1.7	10YR-3/1 very dark gray sand damp							
N Wall 5pt Comp.	901	6"@5' Wall	10	25.2	2.52	0.05	126	1.4	10YR-3/1 very dark gray sand damp							
E Wall N.1/2 5pt Comp.	906	6"@15' Wall	10.1	25.3	2.50	0.16	401	1.3	10YR-3/1 very dark gray sand w/caliche bits damp							
E Wall S.1/2 5pt Comp.	912	6"@15' Wall	10	25.3	2.53	0.21	531	1.2	10YR-3/1 very dark gray sand damp							
E Wall 10pt Comp.	920	6"@15' Wall	10	26.8	2.68	0.24	643	1.2	10YR-3/1 very dark gray sand damp							
All Walls 40pt Comp.	1022	6"	10.1	27.1	2.68	0.22	590	1.6	10YR-3/1 very dark gray sand w/caliche bits damp	<0.050	<0.050	<0.050	<0.150	640	<0.10	<0.10
F1 5pt Comp. (Floor Bottom)	1127	1'	10.5	26.2	2.50	0.55	1372	10.6	10YR-3/1 very dark gray sand damp							
F2 5pt Comp. (Floor Bottom)	1141	1'	10.2	23.3	2.28	0.36	822	5.2	10YR-3/1 very dark gray sand damp							
F3 5pt Comp. (Floor Bottom)	1148	1'	10.4	26.6	2.56	0.44	1125	1.6	10YR-3/1 very dark gray sand damp							
Floor Bottom 15pt Comp.	1151	1'	10.2	24.7	2.42	0.38	920	8.4	10YR-3/1 very dark gray sand damp	<0.050	<0.050	<0.050	<0.150	1340	<0.10	102

7/28/2012

SP1 (15' North of Pumpjack)	853	Surface	10.1	25.8	2.55	0.05	128	1	5YR-7/2 pinkish gray rocky caliche dry							
	958	2.5'	10	24.9	2.49	0.02	50	0.7	5YR-3/1 very dark gray sand Damp							
	1010	5'	10.4	24.4	2.35	0.03	70	0.8	5YR-3/1 very dark gray sand Damp							
SP2 (Between S. Wall and Tank Berm)	1025	Surface	10.1	25.3	2.50	1.38	3456	0.9	5YR-7/3 pink sandy rocky caliche dry							
	1031	2.5'	10	27.5	2.75	1.03	2832	0.7	5YR-3/1 very dark gray sand Damp							
	1040	5'	10.4	27.5	2.64	0.78	2062	0.8	5YR-3/1 very dark gray sand Damp							
SP3 (Inside Tank Berm)	1056	Surface	10.1	23.9	2.37	0.19	449	0.7	5YR-7/3 pink sandy rocky caliche dry							
	1101	2.5'	10.2	25.8	2.53	0.09	228	0.6	5YR-3/1 very dark gray sand Damp							
		5'														

UNABLE TO PULL SAMPLE HIT HARD ROCK LAYER

7/3/2012

Sample pt.	TIME	DEPTH	SOIL	WATER	CF	AGNO3	CL-	PID	SOIL LITHOLOGY	B	T	E	X	CL-	GRO	DRO
SP4 (Inside Tank Berm, 15' from SP2)	909	Surface	10	25.6	2.56	0.87	2227	85.2	5YR-5/3 reddish brown rocky sand w/caliche damp							
	912	2.5'	10	27.8	2.78	0.55	1529	65.4	5YR-3/2 dark reddish brown rocky sand w/caliche damp							
		5'							UNABLE TO PULL SAMPLE HIT HARD ROCK LAYER							

8/2/2012

W Stockpile 10pt Comp.	806	6"	10	26	2.6	0.34	883.726	1.2	7.5YR-3/2 dark brown sand w/caliche bits dry							
E Wall N.1/2 5pt Comp.	855	6"@20' Wall	10.1	27.9	2.76238	0.24	662.765	1.3	7.5YR-3/2 dark brown sand w/caliche bits damp							
E Wall S.1/2 5pt Comp.	905	6"@20' Wall	10.2	28.3	2.77451	0.18	499.257	1.3	7.5YR-3/2 dark brown sand w/caliche bits damp							
E Wall 10pt Comp.	912	6"@20' Wall	10.3	25.8	2.50485	0.2	500.816	1.2	7.5YR-3/2 dark brown sand w/caliche bits damp							
E Wall Stockpile 10pt Comp.	928	6"	10.1	25.3	2.50495	0.26	651.085	1.3	7.5YR-3/2 dark brown sand w/caliche bits damp							

8/6/2012

E Stockpile 20pt Comp.	1137	6"	10.2	25.5	2.5	0.31	774.76	2.3	7.5YR-6/2 pinkish gray sand w/caliche dry							
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8/7/2012

E Wall N.1/2 5pt Comp.	1046	6"@25' Wall	10.1	27	2.67327	0.18	481.039	1.3	7.5YR-3/2 dark brown sand w/caliche bits damp							
E Wall S.1/2 5pt Comp.	1055	6"@25' Wall	10.4	26.4	2.53846	0.18	456.781	1.4	7.5YR-6/2 pinkish gray sand w/caliche bits damp							
E Wall 10pt Comp.	1116	6"@25' Wall	10.3	26.6	2.58252	0.18	464.71	1.4	7.5YR-6/2 pinkish gray sand w/caliche bits damp							
E Wall Stockpile 5pt Comp.	1103	6"	10.1	25.7	2.54455	0.22	559.628	1.5	7.5YR-6/2 pinkish gray sand w/caliche bits damp							

8/8/2012

Sample pt.	TIME	DEPTH	SOIL	WATER	CF	AGNO3	CL-	PID	SOIL LITHOLOGY	B	T	E	X	CL-	GRO	DRO
E Wall N.1/2 5pt Comp.	1025	6"@30' Wall	10.4	26.8	2.57692	0.19	489.464	1.1	7.5YR-3/2 dark brown sand w/caliche bits damp							
E Wall S.1/2 5pt Comp.	1041	6"@30' Wall	10	24.6	2.46	0.14	344.293	2.5	7.5YR-6/2 pinkish gray rocky sand w/caliche bits damp							
E Wall 10pt Comp.	1056	6"@30' Wall	10.2	25.5	2.5	0.17	424.868	1	7.5YR-6/2 pinkish gray rocky sand w/caliche bits damp							
E Wall Stockpile 5pt Comp.	1047	6"	10.1	25	2.47525	0.14	346.427	1	7.5YR-6/2 pinkish gray rocky sand w/caliche bits damp							

8/9/2012

N Wall Area A W.1/2 5pt Comp.	324	6"@5' Wall	10.1	23.1	2.28713	0.08	182.914	1	7.5YR-3/2 dark brown sand damp							
N Wall Area A E.1/2 5pt Comp.	328	6"@5' Wall	10.1	25.8	2.55446	0.09	229.83	1.2	7.5YR-3/2 dark brown sand damp							
N Wall Area B 5pt Comp.	311	6"	10.2	23	2.2549	0.5	1127.1	1.1	7.5YR-3/2 dark brown sand damp							
N Wall 15pt Comp.	609	6"	10.6	25.2	2.37736	0.14	332.727	1.3	7.5YR-3/2 dark brown sand w/caliche bits damp							
E Wall N.1/2 5pt Comp.	1134	6"@35' Wall	10	26.4	2.64	0.15	395.877	1.1	7.5YR-3/2 dark brown sand w/caliche bits damp							
E Wall S.1/2 5pt Comp.	1203	6"@35' Wall	10.1	24.1	2.38614	0.13	310.102	0.8	7.5YR-6/2 pinkish gray rocky sand w/caliche bits dry							
E Wall N.1/2 5pt Comp.	1230	6"@40' Wall	10.2	26.8	2.62745	0.12	315.196	1	7.5YR-5/2 brown sand w/caliche bits damp							
E Wall 10pt Comp.	102	6"	10.1	25.2	2.49505	0.16	399.084	1.1	7.5YR-6/2 pinkish gray rocky sand w/caliche bits							
W Wall 5pt Comp. (Area A)	319	6"	10.1	25.7	2.54455	0.33	839.443	1.4	7.5YR-3/2 dark brown sand damp							
W Wall N.1/2 5pt Comp. (Area B)	204	6"	10.2	26.2	2.56863	0.27	693.314	1.1	7.5YR-3/2 dark brown sand damp							
W Wall S.1/2 5pt Comp. (Area B)	1112	6"	10.3	29.3	2.84466	0.12	341.253	1.1	7.5YR-3/2 dark brown sand damp							

8/10/2012

Sample pt.	TIME	DEPTH	SOIL	WATER	CF	AGNO3	CL-	PID	SOIL LITHOLOGY	B	T	E	X	CL-	GRO	DRO
W Wall 15pt Comp.	643	6"	10	27	2.7	0.22	593.816	1.2	7.5YR-3/2 dark brown sand damp							
Walls 40pt Comp.	649	6"	10.2	24.5	2.40196	0.19	456.231	1.1	7.5YR-3/2 dark brown sand w/caliche bits lightly rocky damp	<0.050	<0.150	<0.050	<0.150	464	<10.0	<10.0

8/10/2012

F1 5pt Comp. (Floor Bottom)	1251	1'	10.1	27.4	2.71287	0.27	732.248	2.2	7.5YR-4/1 dark gray sand w/caliche bits damp							
F2 5pt Comp. (Floor Bottom)	1141	1'	10	25.9	2.59	0.34	880.327	2.1	7.5YR-4/1 dark gray sand w/caliche bits damp							
F3 5pt Comp. (Floor Bottom)	1239	1'	10	27.6	2.76	0.46	1269.21	2.1	7.5YR-4/1 dark gray sand w/caliche bits damp							
Floor 15pt Comp.	101	1'	10.1	27.9	2.76238	0.35	966.532	2.3	7.5YR-4/1 dark gray sand w/caliche bits damp	<0.050	<0.150	<0.050	<0.150	832	<10.0	41.8
Stockpile 30pt Comp.	131	6"	10.1	25.6	2.53465	0.25	633.467	1.5	7.5YR-6/2 pinkish gray rocky sandy sand w/caliche dry	<0.050	<0.150	<0.050	<0.150	672	<10.0	10.5

8/16/2012

E Wall N.1/2 5pt Comp.	1202	6"@45" Wall	10.1	25.5	2.52475	0.07	176.678		7.5YR-4/2 brown sand w/caliche bits damp							
E Wall S.1/2 5pt Comp.	1210	6"@45" Wall	10.3	26.9	2.61165	0.08	208.867		7.5YR-4/2 brown sand w/caliche bits damp							

8/16/2012

E Wall 10pt Comp.	1239	6"@45" Wall	10	26.3	2.63	0.07	184.043		7.5YR-4/2 brown sand w/caliche bits damp	<0.050	<0.050	<0.050	<0.150	224	<10.0	<10.0
S Wall SE.1/4 5pt Comp.	1216	6"@15" Wall	10.1	24	2.37624	0.48	1140.24		7.5YR-6/2 pinkish gray rocky sandy sand w/caliche dry							
N Wall 5pt Comp. (South of West Deadman)	1221	6"	10.1	27.1	2.68317	0.06	160.94		7.5YR-3/2 dark brown sand damp							
W Wall S.1/2 5pt Comp.	1225	6"@10" Wall	10.1	32.2	3.18812	0.05	159.357		7.5YR-3/2 dark brown sand damp	<0.050	<0.050	<0.050	<0.150	128	<10.0	<10.0
S Wall SW.1/4 5pt Comp.	1230	6"@15" Wall	10	27.3	2.73	0.1	272.915		7.5YR-3/2 dark brown sand damp	<0.050	<0.050	<0.050	<0.150	320	<10.0	<10.0
W Wall Stockpile	107	6"	10.1	27.5	2.72277	0.07	190.535		7.5YR-3/2 dark brown rocky sand w/caliche bits damp							

8/2/2012

Sample pt.	TIME	DEPTH	SOIL	WATER	CF	AGNO3	CL-	PID	SOIL LITHOLOGY	B	T	E	X	CL-	GRO	DRO
S Wall SW.1/4 5pt Comp.	833	6"	10.1	27.6	2.73267	0.13	355.137		7.5YR-3/2 dark brown sand damp							
S Wall West Center 5pt Comp.	836	6"	10.3	27.8	2.69903	0.7	1888.73		7.5YR-3/2 dark brown sand damp							
S Wall East Center 5pt Comp.	842	6"	10.1	26.5	2.62376	0.53	1390.16		7.5YR-3/2 dark brown lightly rocky sand w/caliche bits damp							
S Wall SE.1/4 5pt Comp.	852	6"	10.1	28.3	2.80198	0.22	616.245		7.5YR-6/2 pinkish gray rocky sandy sand w/caliche dry							
S Wall 20pt Comp.									7.5YR-3/2 dark brown rocky sand w/caliche bits damp	<0.050	<0.050	<0.050	<0.150	1120	<10.0	<10.0
Stockpile 20pt Comp.	926	6"	10.2	25	2.45098	0.15	367.533		7.5YR-6/2 pinkish gray rocky sandy sand w/caliche dry	<0.050	<0.050	<0.050	<0.150	320	<10.0	<10.0

Analytical Results For:

EARTH TECHNOLOGIES OF NEW MEXICO
ROY RASCON
904 WEST HUMBLE
HOBBS NM, 88240
Fax To: NONE

Received: 02/15/2012
Reported: 02/21/2012
Project Name: CHAPARRAL YATES STATE #2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/15/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: B 1 SURFACE (H200413-01)

BTX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	02/18/2012	ND	1.87	93.6	2.00	2.03	
Toluene*	8.71	0.500	02/18/2012	ND	2.03	102	2.00	2.02	
Ethylbenzene*	16.4	0.500	02/18/2012	ND	2.08	104	2.00	0.853	
Total Xylenes*	49.8	1.50	02/18/2012	ND	6.51	109	6.00	0.719	

Surrogate: 4-Bromofluorobenzene (PIL) 162 % 64.4-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	02/18/2012	ND	400	100	400	3.92	

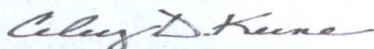
Sample ID: B 1 @ 15' (H200413-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/18/2012	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 EARTH TECHNOLOGIES OF NEW MEXICO
 ROY RASCON
 904 WEST HUMBLE
 HOBBS NM, 88240
 Fax To: NONE

 Received: 02/15/2012
 Reported: 02/21/2012
 Project Name: CHAPARRAL YATES STATE #2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 02/15/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B 1 @ 20' (H200413-03)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/18/2012	ND	400	100	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	02/16/2012	ND	174	87.1	200	4.78	
DRO >C10-C28	<10.0	10.0	02/16/2012	ND	169	84.3	200	12.1	

 Surrogate: 1-Chlorooctane 88.8 % 55.5-154
 Surrogate: 1-Chlorooctadecane 102 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

EARTH TECHNOLOGIES OF NEW MEXICO
ROY RASCON
904 WEST HUMBLE
HOBBS NM, 88240
Fax To: NONE

Received: 02/15/2012
Reported: 02/21/2012
Project Name: CHAPARRAL YATES STATE #2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/15/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: B 2 SURFACE (H200413-04)

BTX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	02/18/2012	ND	1.87	93.6	2.00	2.03	
Toluene*	6.46	0.500	02/18/2012	ND	2.03	102	2.00	2.02	
Ethylbenzene*	13.0	0.500	02/18/2012	ND	2.08	104	2.00	0.853	
Total Xylenes*	39.7	1.50	02/18/2012	ND	6.51	109	6.00	0.719	

Surrogate: 4-Bromofluorobenzene (PIL) 153 % 64.4-134

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6240	16.0	02/18/2012	ND	400	100	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	820	50.0	02/16/2012	ND	174	87.1	200	4.78	
DRO >C10-C28	4060	50.0	02/16/2012	ND	169	84.3	200	12.1	

Surrogate: 1-Chlorooctane 81.9 % 55.5-154

Surrogate: 1-Chlorooctadecane 88.3 % 57.6-158


Sample ID: B 2 @ 15' (H200413-05)

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/18/2012	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

EARTH TECHNOLOGIES OF NEW MEXICO
ROY RASCON
904 WEST HUMBLE
HOBBS NM, 88240
Fax To: NONE

Received: 02/15/2012
Reported: 02/21/2012
Project Name: CHAPARRAL YATES STATE #2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/15/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: B 3 SURFACE (H200413-06)

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	02/18/2012	ND	400	100	400	3.92		

Sample ID: B 3 @ 10' (H200413-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/18/2012	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 7 of 7

Analytical Results For:

EARTH TECHNOLOGIES OF NEW MEXICO
ROY RASCON
904 WEST HUMBLE
HOBBS NM, 88240
Fax To: NONE

Received: 07/17/2012
Reported: 07/18/2012
Project Name: CHAPARRAL YATES STATE #2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/16/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AREA A WALLS 15 PT (H201628-01)

BTX 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	07/17/2012	ND	1.88	93.9	2.00	2.82	
Toluene*	0.065	0.050	07/17/2012	ND	1.89	94.5	2.00	3.09	
Ethylbenzene*	0.079	0.050	07/17/2012	ND	1.94	97.1	2.00	4.36	
Total Xylenes*	<0.150	0.150	07/17/2012	ND	5.85	97.4	6.00	4.60	

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	07/18/2012	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: AM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/17/2012	ND	166	83.1	200	6.45	
DRO >C10-C28	30.7	10.0	07/17/2012	ND	173	86.6	200	8.21	

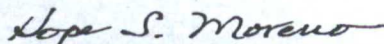
Surrogate: 1-Chlorooctane 78.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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Hope Moreno, Inorganic Technical Director

Analytical Results For:

EARTH TECHNOLOGIES OF NEW MEXICO
ROY RASCON
904 WEST HUMBLE
HOBBS NM, 88240
Fax To: NONE

Received: 07/17/2012
Reported: 07/18/2012
Project Name: CHAPARRAL YATES STATE #2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/16/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AREA A FLOOR 5 PT (H201628-02)

BTX 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	07/17/2012	ND	1.88	93.9	2.00	2.82		
Toluene*	<0.050	0.050	07/17/2012	ND	1.89	94.5	2.00	3.09		
Ethylbenzene*	0.061	0.050	07/17/2012	ND	1.94	97.1	2.00	4.36		
Total Xylenes*	0.161	0.150	07/17/2012	ND	5.85	97.4	6.00	4.60		

Surrogate: 4-Bromofluorobenzene (PIE) 119 % 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	1540	16.0	07/18/2012	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: AM					

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12.5	10.0	07/17/2012	ND	166	83.1	200	6.45	
DRO >C10-C28	502	10.0	07/17/2012	ND	173	86.6	200	8.21	

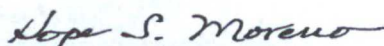
Surrogate: 1-Chlorooctane 80.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Hope Moreno, Inorganic Technical Director

Analytical Results For:

EARTH TECHNOLOGIES OF NEW MEXICO
ROY RASCON
904 WEST HUMBLE
HOBBS NM, 88240
Fax To: NONE

Received: 07/17/2012
Reported: 07/18/2012
Project Name: CHAPARRAL YATES STATE #2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/16/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AREA B WALLS 20 PT (H201628-03)

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	07/17/2012	ND	1.88	93.9	2.00	2.82		
Toluene*	<0.050	0.050	07/17/2012	ND	1.89	94.5	2.00	3.09		
Ethylbenzene*	<0.050	0.050	07/17/2012	ND	1.94	97.1	2.00	4.36		
Total Xylenes*	<0.150	0.150	07/17/2012	ND	5.85	97.4	6.00	4.60		

Surrogate: 4-Bromofluorobenzene (PIB) 103 % 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	976	16.0	07/18/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/17/2012	ND	166	83.1	200	6.45	
DRO >C10-C28	<10.0	10.0	07/17/2012	ND	173	86.6	200	8.21	

Surrogate: 1-Chlorooctane 83.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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Hope Moreno, Inorganic Technical Director

Analytical Results For:

EARTH TECHNOLOGIES OF NEW MEXICO
ROY RASCON
904 WEST HUMBLE
HOBBS NM, 88240
Fax To: NONE

Received: 07/17/2012
Reported: 07/18/2012
Project Name: CHAPARRAL YATES STATE #2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/16/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AREA B FLOOR 5 PT (H201628-04)

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	07/17/2012	ND	1.88	93.9	2.00	2.82		
Toluene*	<0.050	0.050	07/17/2012	ND	1.89	94.5	2.00	3.09		
Ethylbenzene*	<0.050	0.050	07/17/2012	ND	1.94	97.1	2.00	4.36		
Total Xylenes*	<0.150	0.150	07/17/2012	ND	5.85	97.4	6.00	4.60		

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	07/18/2012	ND	400	100	400	3.92		

TPH 8015M			mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/17/2012	ND	166	83.1	200	6.45		
DRO >C10-C28	<10.0	10.0	07/17/2012	ND	173	86.6	200	8.21		

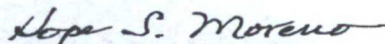
Surrogate: 1-Chlorooctane 72.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.3 % 63.6-154

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Hope Moreno, Inorganic Technical Director



BILL TO										ANALYSIS REQUEST									
Company Name: ETNM		P.O. #:		Company:															
Project Manager: Roy Kascon				City:		State:		Zip:											
Address:				City:		State:		Zip:											
Phone #:				City:		State:		Zip:											
Project #:				City:		State:		Zip:											
Project Name: Chemical Yates State #2				City:		State:		Zip:											
Project Location:				City:		State:		Zip:											
Sampler Name: E. Kascon				City:		State:		Zip:											
Fax #:				City:		State:		Zip:											
FOR LAB USE ONLY				City:		State:		Zip:											
Lab I.D.				City:		State:		Zip:											
H201628				City:		State:		Zip:											
1 Area A Walks 15pt				City:		State:		Zip:											
2 Area H Floor 5pt				City:		State:		Zip:											
3 Area B Walks 20pt				City:		State:		Zip:											
4 Area B Floor 5pt				City:		State:		Zip:											
Sample I.D.				City:		State:		Zip:											
H201628				City:		State:		Zip:											
1 Area A Walks 15pt				City:		State:		Zip:											
2 Area H Floor 5pt				City:		State:		Zip:											
3 Area B Walks 20pt				City:		State:		Zip:											
4 Area B Floor 5pt				City:		State:		Zip:											
Sample I.D.				City:		State:		Zip:											
H201628				City:		State:		Zip:											
1 Area A Walks 15pt				City:		State:		Zip:											
2 Area H Floor 5pt				City:		State:		Zip:											
3 Area B Walks 20pt				City:		State:		Zip:											
4 Area B Floor 5pt				City:		State:		Zip:											
Sample I.D.				City:		State:		Zip:											
H201628				City:		State:		Zip:											
1 Area A Walks 15pt				City:		State:		Zip:											
2 Area H Floor 5pt				City:		State:		Zip:											
3 Area B Walks 20pt				City:		State:		Zip:											
4 Area B Floor 5pt				City:		State:		Zip:											
Sample I.D.				City:		State:		Zip:											
H201628				City:		State:		Zip:											
1 Area A Walks 15pt				City:		State:		Zip:											
2 Area H Floor 5pt				City:		State:		Zip:											
3 Area B Walks 20pt				City:		State:		Zip:											
4 Area B Floor 5pt				City:		State:		Zip:											
Sample I.D.																			

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Relinquished By: <i>[Signature]</i>		Date: <i>7-17-12</i>		Received By: <i>[Signature]</i>		CHECKED BY: (Initials) <i>[Signature]</i>	
		Time: <i>8:57</i>		Date: _____		Sample Condition	
Relinquished By: _____		Date: _____		Time: _____		Cool <input type="checkbox"/> Intact <input type="checkbox"/>	
						Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Delivered By: (Circle One)		- 0.52					
Sampler - UPS - Bus - Other:							

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

Analytical Results For:

EARTH TECHNOLOGIES OF NEW MEXICO
ROY RASCON
904 WEST HUMBLE
HOBBS NM, 88240
Fax To: NONE

Received: 07/27/2012
Reported: 07/30/2012
Project Name: CHAPARRAL YATES STATE #2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 07/27/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: WALLS 40 PT (4 WALL COMP) (H201751-01)

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	07/29/2012	ND	1.82	91.2	2.00	0.352	
Toluene*	<0.050	0.050	07/29/2012	ND	1.87	93.3	2.00	1.02	
Ethylbenzene*	<0.050	0.050	07/29/2012	ND	1.90	95.2	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/29/2012	ND	5.82	97.1	6.00	2.32	

Surrogate: 4-Bromofluorobenzene (PIL) 113 % 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	640	16.0	07/27/2012	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	07/27/2012	ND	188	93.8	200	6.58	
DRO >C10-C28	<10.0	10.0	07/27/2012	ND	204	102	200	8.91	

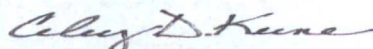
Surrogate: 1-Chlorooctane 97.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 EARTH TECHNOLOGIES OF NEW MEXICO
 ROY RASCON
 904 WEST HUMBLE
 HOBBS NM, 88240
 Fax To: NONE

 Received: 07/27/2012
 Reported: 07/30/2012
 Project Name: CHAPARRAL YATES STATE #2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/27/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FLOOR 15 PT (H201751-02)

BTX 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	07/29/2012	ND	1.82	91.2	2.00	0.352	
Toluene*	<0.050	0.050	07/29/2012	ND	1.87	93.3	2.00	1.02	
Ethylbenzene*	<0.050	0.050	07/29/2012	ND	1.90	95.2	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/29/2012	ND	5.82	97.1	6.00	2.32	

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	07/27/2012	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	07/27/2012	ND	188	93.8	200	6.58	
DRO >C10-C28	102	10.0	07/27/2012	ND	204	102	200	8.91	

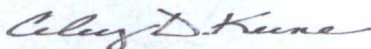
Surrogate: 1-Chlorooctane 92.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)				
Sampler - UPS - Bus - Other:	<table border="1"> <tr> <td>Cool</td> <td>Intact</td> </tr> <tr> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> </table>	Cool	Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	50
Cool	Intact					
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS: Rush!!! Email #11

Analytical Results For:

EARTH TECHNOLOGIES OF NEW MEXICO
ROY RASCON
904 WEST HUMBLE
HOBBS NM, 88240
Fax To: NONE

Received: 08/10/2012
Reported: 08/13/2012
Project Name: CHAPARRAL YATES STATE #2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/10/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 15 PT FLOOR (H201865-01)

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	08/13/2012	ND	1.75	87.4	2.00	3.35		
Toluene*	<0.150	0.150	08/13/2012	ND	1.99	99.7	2.00	3.71		
Ethylbenzene*	<0.050	0.050	08/13/2012	ND	1.98	99.0	2.00	3.87		
Total Xylenes*	<0.150	0.150	08/13/2012	ND	5.92	98.7	6.00	4.16		

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	832	16.0	08/13/2012	ND	400	100	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	08/11/2012	ND	174	86.8	200	1.44	
DRO >C10-C28	41.8	10.0	08/11/2012	ND	176	88.2	200	0.126	

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

EARTH TECHNOLOGIES OF NEW MEXICO
ROY RASCON
904 WEST HUMBLE
HOBBS NM, 88240
Fax To: NONE

Received: 08/10/2012
Reported: 08/13/2012
Project Name: CHAPARRAL YATES STATE #2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/10/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 30 PT STOCKPILE (H201865-02)

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	08/13/2012	ND	1.75	87.4	2.00	3.35	
Toluene*	<0.150	0.150	08/13/2012	ND	1.99	99.7	2.00	3.71	
Ethylbenzene*	<0.050	0.050	08/13/2012	ND	1.98	99.0	2.00	3.87	
Total Xylenes*	<0.150	0.150	08/13/2012	ND	5.92	98.7	6.00	4.16	

Surrogate: 4-Bromofluorobenzene (PIL) 99.3 % 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	672	16.0	08/13/2012	ND	400	100	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	08/11/2012	ND	174	86.8	200	1.44	
DRO >C10-C28	10.5	10.0	08/11/2012	ND	176	88.2	200	0.126	

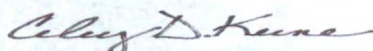
Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

EARTH TECHNOLOGIES OF NEW MEXICO
ROY RASCON
904 WEST HUMBLE
HOBBS NM, 88240
Fax To: NONE

Received: 08/10/2012
Reported: 08/13/2012
Project Name: CHAPARRAL YATES STATE #2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/09/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 40 PT ALL WALLS (H201865-03)

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	08/13/2012	ND	1.75	87.4	2.00	3.35		
Toluene*	<0.150	0.150	08/13/2012	ND	1.99	99.7	2.00	3.71		
Ethylbenzene*	<0.050	0.050	08/13/2012	ND	1.98	99.0	2.00	3.87		
Total Xylenes*	<0.150	0.150	08/13/2012	ND	5.92	98.7	6.00	4.16		

Surrogate: 4-Bromofluorobenzene (PII) 98.5 % 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	464	16.0	08/13/2012	ND	400	100	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	08/11/2012	ND	174	86.8	200	1.44	
DRO >C10-C28	<10.0	10.0	08/11/2012	ND	176	88.2	200	0.126	

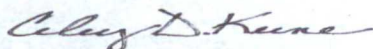
Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 119 % 63.6-154

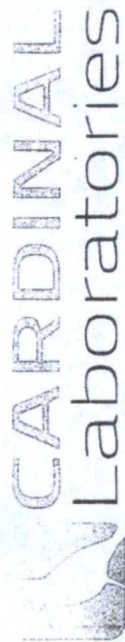
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO		ANALYSIS REQUEST									
Company Name: <u>ETNM</u>		P.O. #:									
Project Manager: <u>Elijah Ranson / Roy Ranson</u>		Company:									
Address:		Attn:									
City:		State:	Zip:								
Phone #:		Fax #:									
Project #:		Project Owner:									
Project Name: <u>Deported Vates #2</u>		City:	State:	Zip:							
Project Location:		Phone #:									
Sampler Name: <u>E. Ranson</u>		Fax #:									
FOR LAB USE ONLY		MATRIX	PRESERV	SAMPLING							
Lab I.D.	Sample I.D.	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME
H201865	15pt Floor	X		X				X		8-10-12	101
2	30pt Stockpile	X		X				X		8-10-12	131
3	40pt All walls	X		X				X		8-9-12	644

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Relinquished By: <u>Elijah Ranson</u>	Date: <u>8-10-12</u>	Received By: <u>Elijah Ranson</u>	Date: <u>8-10-12</u>	Time: <u>3:15</u>	Time: <u>3:15</u>
Relinquished By:	Date:	Received By:	Date:	Time:	Time:
Delivered By: (Circle One)	Sample Condition	CHECKED BY:			
Sampler - UPS - Bus - Other:	Cool Intact	Initials			
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<u>ER</u>			

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS: Rash!! Email All

Analytical Results For:

EARTH TECHNOLOGIES OF NEW MEXICO
ROY RASCON
904 WEST HUMBLE
HOBBS NM, 88240
Fax To: NONE

Received: 08/17/2012
Reported: 08/20/2012
Project Name: CHAPARRAL YATES STATE #2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/16/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Hope S. Moreno

Sample ID: E WALL 10 PT (H201938-01)

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	08/19/2012	ND	1.66	83.1	2.00	1.23		
Toluene*	<0.050	0.050	08/19/2012	ND	2.11	106	2.00	2.27		
Ethylbenzene*	<0.050	0.050	08/19/2012	ND	2.27	113	2.00	2.43		
Total Xylenes*	<0.150	0.150	08/19/2012	ND	7.54	126	6.00	3.28		

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	224	16.0	08/17/2012	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	08/17/2012	ND	197	98.4	200	3.54	
DRO >C10-C28	<10.0	10.0	08/17/2012	ND	206	103	200	4.15	

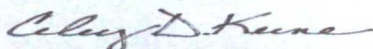
Surrogate: 1-Chlorooctane 94.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

EARTH TECHNOLOGIES OF NEW MEXICO
ROY RASCON
904 WEST HUMBLE
HOBBS NM, 88240
Fax To: NONE

Received: 08/17/2012
Reported: 08/20/2012
Project Name: CHAPARRAL YATES STATE #2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/16/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Hope S. Moreno

Sample ID: W WALL 5 1/2 SPT (H201938-02)

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	08/19/2012	ND	1.66	83.1	2.00	1.23		
Toluene*	<0.050	0.050	08/19/2012	ND	2.11	106	2.00	2.27		
Ethylbenzene*	<0.050	0.050	08/19/2012	ND	2.27	113	2.00	2.43		
Total Xylenes*	<0.150	0.150	08/19/2012	ND	7.54	126	6.00	3.28		

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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	08/17/2012	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	08/17/2012	ND	197	98.4	200	3.54		
DRO >C10-C28	<10.0	10.0	08/17/2012	ND	206	103	200	4.15		

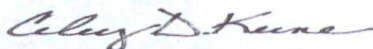
Surrogate: 1-Chlorooctane 98.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.7 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

EARTH TECHNOLOGIES OF NEW MEXICO
ROY RASCON
904 WEST HUMBLE
HOBBS NM, 88240
Fax To: NONE

Received: 08/17/2012
Reported: 08/20/2012
Project Name: CHAPARRAL YATES STATE #2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/16/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Hope S. Moreno

Sample ID: S WALL SW 1/4 - 5 PT (H201938-03)

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	08/19/2012	ND	1.66	83.1	2.00	1.23	
Toluene*	<0.050	0.050	08/19/2012	ND	2.11	106	2.00	2.27	
Ethylbenzene*	<0.050	0.050	08/19/2012	ND	2.27	113	2.00	2.43	
Total Xylenes*	<0.150	0.150	08/19/2012	ND	7.54	126	6.00	3.28	

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 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	320	16.0	08/17/2012	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	08/17/2012	ND	197	98.4	200	3.54	
DRO >C10-C28	<10.0	10.0	08/17/2012	ND	206	103	200	4.15	

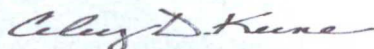
Surrogate: 1-Chlorooctane 82.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.6 % 63.6-154

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Celest D. Keene, Lab Director/Quality Manager



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

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Relinquished By: <u>[Signature]</u> Relinquished By: _____		Date: <u>8.17.12</u> Time: <u>1122</u>		Received By: <u>[Signature]</u> Received By: _____		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Sample Condition Cook <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) <u>[Signature]</u>		REMARKS: <u>RUSH!!!</u> <u>Email All</u>	

Analytical Results For:

 EARTH TECHNOLOGIES OF NEW MEXICO
 ROY RASCON
 904 WEST HUMBLE
 HOBBS NM, 88240
 Fax To: NONE

 Received: 08/24/2012
 Reported: 08/27/2012
 Project Name: CHAPARRAL YATES STATE #2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/24/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S. WALL 20 PT (H202031-01)

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	08/27/2012	ND	1.64	82.1	2.00	0.462	
Toluene*	<0.050	0.050	08/27/2012	ND	1.69	84.4	2.00	0.170	
Ethylbenzene*	<0.050	0.050	08/27/2012	ND	1.75	87.7	2.00	0.370	
Total Xylenes*	<0.150	0.150	08/27/2012	ND	5.65	94.2	6.00	0.713	

Surrogate: 4-Bromofluorobenzene (PIL) 96.0 % 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	1120	16.0	08/24/2012	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2012	ND	186	92.9	200	4.58	
DRO >C10-C28	<10.0	10.0	08/24/2012	ND	170	85.2	200	8.65	

Surrogate: 1-Chlorooctane 78.0 % 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:

EARTH TECHNOLOGIES OF NEW MEXICO
ROY RASCON
904 WEST HUMBLE
HOBBS NM, 88240
Fax To: NONE

Received: 08/24/2012
Reported: 08/27/2012
Project Name: CHAPARRAL YATES STATE #2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/24/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: STOCKPILE 20 PT (H202031-02)

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	08/27/2012	ND	1.64	82.1	2.00	0.462		
Toluene*	<0.050	0.050	08/27/2012	ND	1.69	84.4	2.00	0.170		
Ethylbenzene*	<0.050	0.050	08/27/2012	ND	1.75	87.7	2.00	0.370		
Total Xylenes*	<0.150	0.150	08/27/2012	ND	5.65	94.2	6.00	0.713		

Surrogate: 4-Bromofluorobenzene (PII) 99.4 % 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	320	16.0	08/24/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					

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	08/24/2012	ND	186	92.9	200	4.58	
DRO >C10-C28	<10.0	10.0	08/24/2012	ND	170	85.2	200	8.65	

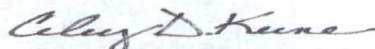
Surrogate: 1-Chlorooctane 92.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



Company Name: _____
Project Manager: _____

BILL TO

P.O. #:	
Company:	
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

Project Manager: *E. J. Dawson / B. Dawson*
Address:
City: State: Zip:
Phone #: Fax #:
Project #: Project Owner:
Project Name: *Chapel Hill / Yates State #2*
Project Location:
Sampler Name: *B. Dawson*

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Lab I.D.	Sample I.D.	DR (C)OMP.	INERS
FOR LAB USE ONLY			

MATRIX	PRESERV	SAMPLING	DATE	TIME
GROUNDWATER			8/24/02	9:11
WASTEWATER			8/24/02	9:26
SOIL				
OIL				
SLUDGE				
OTHER :				
ACID/BASE:				
ICE / COOL				
OTHER :				

H202031

22 Sept 2017

DATE	TIME
8.24.12	9:11
8.24.12	9:26

C	X	X
B	X	X
A	X	X

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the services. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable services. 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 either out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above or any other reasons or otherwise.

Relinquished By:

Date: 11/2/2019

Received By:

11

10

Phone Result: _____
Fax Result: _____☐ Yes ☐

Add'l Phone #:

DOI: 10.1002/for

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool	Intact
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes

CHECKED BY:

(Initials) *af...*

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



**Remediation and Site Restoration Protocol
Chaparral Energy Co. LLC.
Yates State #2
1RP-2781**

1.0 Purpose

This protocol is to provide a detailed outline of the steps to be employed in the remediation of a produce water & hydrocarbon release impact area near Bronco, Tx. in Lea County, New Mexico.

2.0 Scope

This protocol is site specific for the above project.

3.0 Preliminary

Prior to any field operations, Whole Earth Environmental shall conduct the following activities:

3.1 Client Review

3.1.1 Whole Earth shall meet with appointed personnel within Chaparral Energy Co. LLC. to review this protocol and make any requested modifications or alterations.

3.1.2 Changes to this protocol will be documented and submitted for final review by Chaparral Energy Co. LLC. prior to the initiation of actual fieldwork.

3.1.3 Upon client approval, this protocol and supporting documentation will be submitted to the Hobbs district office of the NMOCD for approval.

4.0 Safety

4.1 Prior to work on the site, Whole Earth shall obtain the location and phone numbers of the nearest emergency medical treatment facility. We will review all safety related issues with the appropriate Targa Midstream Services LLC. personnel, sub-contractors and exchange phone numbers.

4.2 A tailgate safety meeting shall be held and documented each day. All sub-contractors must attend and sign the daily log-in sheet.

4.3 Anyone allowed on to location will be wearing standard PPE, and Fire Retardant Clothing or Coveralls. Each vehicle must be equipped with two way communication capabilities.

5.0 Remediation Procedure

5.1 The area impacted by the produce water and oil spill will be excavated to depth of 4' below ground surface, and set a geo-textile liner at the bottom of the excavation. Using the dimensions from the previously run EM-38 Survey, the excavated dimensions should be approximately 20' x 60'. The excavated materials will be transported to Gandy / Marley facility near Caprock, NM and be replaced with fresh caliche.

6.0 Site Restoration Procedure

6.1 the site will backfilled and compacted with fresh caliche and re-contoured to match the surrounding elevation.

7.0 Closure Report

At the conclusion of the project, Whole Earth shall prepare a closure report which contains the following minimum information:

- Photographs of the location prior to remediation
- Photographs of all excavations at the point of maximum soil removal
- Photographs of the location at time of final closure
- Lab results
- Copies of this protocol and all testing procedures
- Field CL- titration results
- Disposal record of all manifest ticket numbers, volume amount of load, and date of disposal
- Copies of this protocol and all testing procedures