GW - 028

REPORTS

Year(s)

ERS METX Artesia Unit Closure Report (5/2/2005)

Navajo Refining Company ERS METX Artesia Unit Amended Closure Report Section 30, Township 18S, Range 28E Eddy County, New Mexico

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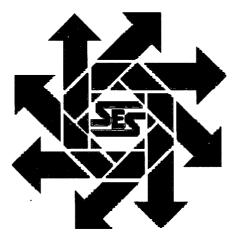
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May 2, 2005



Prepared for:

Navajo Refining Company 311 W. Quay Artesia, New Mexico 88210

By:

Safety & Environmental Solutions, Inc. 703 E. Clinton Suite 102 Hobbs, New Mexico 88240 (505) 397-0510

RECEIVED MAY 2 3 2005 OIL CONSERVATION

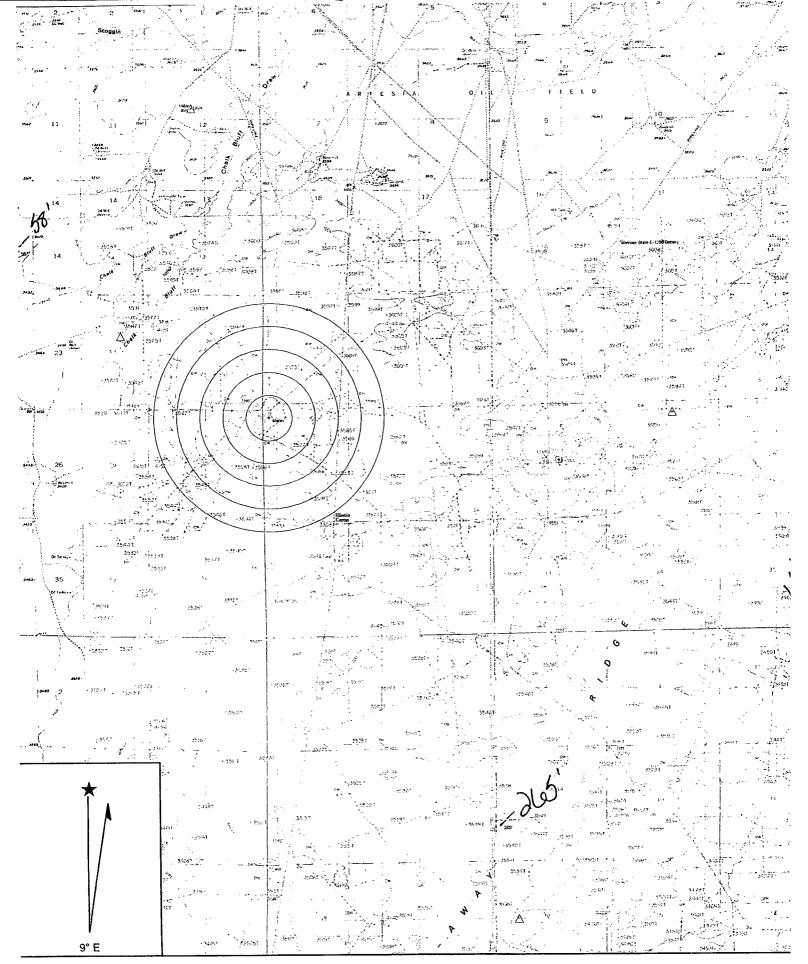
NAVAJO METEX PROJECT # NAV-04-008 SAMPLING

Every sample taken witnessed by Mike Bratcher with the OCD.

- 04/08/05 Mike Bratcher was on site and said that he was not going to take any samples for that day because he (Mike) could still smell TPH in bottom hole of excavation #1, and see some staining on rocks of the east and west wall. There was also some contaminated soil to the east of excavation #1 that he wanted removed. Sergio Contreras took a grab sample of bottom hole of excavation #1 and was taken to Cardinal laboratories for third party confirmation.
- 04/10/05 E.D. Walton was on site to excavate contaminated soil inside and around excavation #1 and haul to Artesia Aeration. Called Mike Bratcher to inform him that we were going to sample the next day and if he was available to witness. Mike said that he would be around to witness the sampling at 10:00 am.
- 4/11/05 Mike arrived on location at 10:00 am and pointed out some staining on the east and west wall of excavation #1. Bottom Hole was a grab sample from middle of excavation, north wall was a grab sample from the middle of the wall, west wall was a two point sample on the only two visible stains (on rock), south wall was a grab sample from the middle of the wall, east upper wall was a two point sample of two stains (on rock), east lower wall was a grab sample from the middle of the wall. Mike Bratcher went around location with a shovel digging up soil and found two areas that had a TPH odor. Started excavating areas with backhoe that was on location and continued hauling to Artesia Aeration.
- 4/12/05 E.D. Walton was on site with backhoe and dump truck excavating and hauling soil. Started excavating excavation #2 and #3 with backhoe. Called Mike Bratcher to ask if he could meet me on the 13 of April to witness some sampling from all three excavations.
- 4/13/05 Met with Mike with OCD and sampled Excavation #1, #2 and #3. Mike wanted to sample the upper west wall of excavation #1 because he said it had a TPH odor to it. After removing the stains of excavation #1 Mike said that there was no need to sample any other area. On excavation #2 and #3 Mike wanted to sample the main areas of the excavation. All samples taken were composite samples of each area.
- 4/20/05 Went to site to clean out bottom hole of Excavation #3 but there was water in every excavation. Called Tony with Navajo to send a vacuum truck to

suck water out of excavations. The amount of water that was sucked out was 200 plus barrels.

- 4/25/05 Arrived on site and I & W had a backhoe and dump truck on site to excavate bottom hole of excavation #3 and haul to Artesia Aeration. Called Mike Bratcher and asked if we could start backfilling excavations #2 and #3 since the analysis come back clean. Mike said no because he was coming over with two gentlemen from the state out of Santa Fe to look over the site and that he might have another plan for the site. I (Sergio) talked to Bob Allen about what was said and he said he would contact Navajo and inform them. At 1:00 pm Bob Allen and Mark Whitaker with Safety and Environmental Solutions arrived on site. At 1:30 pm OCD arrived on location with Mike and two other gentlemen out of Santa Fe. Albert Reves with Navajo arrived shortly after the OCD and the sampling of excavation #3 took place, which was a grab sample from bottom hole. Three trenches were excavated with backhoe where Mike Bratcher was the person who pointed out where to excavate. Samples of the sidewalls and bottom holes were taken from each trench and taken to Cardinal laboratories for third party confirmation. OCD started talking and the two gentlemen from Santa Fe said that they did not see a problem with closing the site. Mike Bratcher was asked what he thought and he did not answer. Everyone finally decided that there was no threat to water and decided to close the site. Moved over to excavation #1 and removed about 24 yards of soil with an odor of TPH and hauled to Artesia Aeration.
- 4/26/05 Began hauling clean backfill to the site, by landowners request of where to get the soil from. A total of 13 -12 yard loads were taken to the Metex site. Navajo's backhoe arrived and backfilled site.
- 4/27/05 Continued hauling clean fill to site and backfill. Finished up that evening and left for the day.



Name: ILLINOIS CAMP Date: 5/4/2005 Scale: 1 inch equals 4444 feet Location: 032° 42' 59.40" N 104° 12' 5.05" W

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I. Company Contacts

Albert Reyes	Navajo Refining	505-748-8940	albert@navajo-refining.com
Bob Allen	SESI	505-397-0510	ballen@sesi-nm.com

II. Background

Safety & Environmental Solutions, Inc. (SESI) was contracted by Navajo Refining Inc. to perform assessment and supervise cleanup services on an area identified as the ERS Metex Artesia Unit. The subject site is an area, which was affected by a crude oil leak from a 3" gathering line. The site is located in Section 30, Township 18S, Range 28E in Eddy County, New Mexico.

III. Contaminant and Size of Area

The suspected contaminate is crude oil from a 3" gathering line. Approximately 410 barrels were released, of which 390 barrels were recovered. The release affected an area approximately 100' X 125' in a "buffalo wallow" with standing water. The suspected contaminant was classified as an exempt oilfield waste. No evidence of other contaminants was observed.

IV. Surface and Ground Water

According to the database provided by the New Mexico State Engineer's Office the closest groundwater of record is in Section 35 of the same range and township. The depth in this well was 65' in 1956.

V. Soils

The soils in the area are predominantly sand and sandy loam.

VI. Work Performed

The cleanup level reached by the application of the "**Guidelines for Remediation of Leaks, Spill and Releases**" *New Mexico Oil Conservation Division* – August 13, 1993 to this site is 100 ppm Total Petroleum Hydrocarbon (TPH).

On November 19, 2004 SESI responded to the leak site and instructed the crew to began to pick up the oil from the water with a skimmer. The oil was transported and released back into production. Containment booms were used to encircle the pond and the oil soaked grass around the perimeter was burned off.

The path, which the leak took from the site of the leak to the pond, was excavated to a depth of approximately 3'. The excavation was backfilled with clean soil supplied by the landowner from off-site. Approximately 6 to 8" of soil was removed from the area immediately adjacent to the pond. Approximately 300 cubic yards or contaminated soil was transported to Artesia Aeration, a NMOCD approved disposal facility, for disposal.

Soil samples were retrieved from the bottom of the excavation and around the pond area. The water from the pond was sampled approximately 10 feet from the shoreline. All samples were properly preserved and sent under chain of custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. The soil samples were analyzed for

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TPH (EPA Method 418.1) and BTEX (EPA Method 8260). The water samples were analyzed for major cations and anions. The results of the samples are as follows:

Date	Sample ID	трн	Benzene	Toluene	Ethyl Benzene	Total Xylenes
1/21/05	Excavation #1	48.8	<0.005	< 0.005	< 0.005	<0.015
1/21/05	Excavation #2	<10	<0.005	<0.005	< 0.005	<0.015
1/21/05	Excavation #3	<10	<0.005	<0.005	<0.005	<0.015
1/21/05	Excavation #4	<10	< 0.005	<0.005	< 0.005	<0.015
1/31/05	Pond N	68.0	<0.005	<0.005	< 0.005	<0.015
1/31/05	Pond NE	<10	< 0.005	<0.005	<0.005	<0.015
1/31/05	Pond E	<10	<0.005	<0.005	< 0.005	<0.015
1/31/05	Pond SE	<10	< 0.005	<0.005	<0.005	<0.015
1/31/05	Pond S	17.5	< 0.005	<0.005	< 0.005	< 0.015
1/31/05	Pond SW	50.6	<0.005	<0.005	< 0.005	<0.015
1/31/05	Pond W	152	< 0.005	< 0.005	< 0.005	<0.015
1/31/05	Pond NW	88.6	<0.005	<0.005	<0.005	<0.015

ID	Benzene	Toluene	Ethyl Benzene	Total Xylenes
East Side	<0.002	<0.002	<0.002	<0.016
West Side	<0.002	<0.002	<0.002	<0.016

ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (mS/cm)	T-Alkalinity (mgCaCo₃/L)
East Side	16	68	29	32	413	192
West Side	14	52	20	17	402	200

ID	CI (mg/L)	SO₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	рН (s.u.)	TDS (mg/L)
East Side	40	2.71	110	9.76	8.37	318
West Side	44	1.81	81.6	78.1	8.51	319

On April 11 thru April 14, 2005 three additional areas were excavated at the site. Excavation #1 was located north of the original excavation. The depth of excavation #1 ranged from 1.5' to 12' in the immediate area of where the pipeline was removed. Excavation #2 was located east of the original excavation and was approximately 2' deep. Excavation #3 was located west of the original excavation and was approximately 2' deep. Composite samples were retrieved from each excavation and transported under Chain of Custody to Cardinal Laboratories for analysis. The samples were analyzed for TPH (EPA Method 418.1) and BTEX (EPA Method 8260). The results of the analysis are as follows:

Date	Sample ID	ТРН	Benzene	Toluene	Ethyl Benzene	Total Xylenes
4/11/05	EXC. #1 Bottom Hole	<10	< 0.005	< 0.005	<0.005	`<0.015
4/11/05	EXC. #1 North Wall	<10	< 0.005	<0.005	< 0.005	<0.015
4/11/05	EXC. #1 West Wall	15500				
4/11/05	EXC. #1 South Wall	<10	< 0.005	< 0.005	< 0.005	<0.015
4/11/05	EXC. #1 East Upper Wall	12000				
4/11/05	EXC. #1 East Lower Wall	<10	<0.005	< 0.005	<0.005	<0.015
4/14/05	EXC. #1 Upper West	294	<0.005	< 0.005	<0.005	<0.015

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4/14/05	EXC. #2 North Wall	<10	<0.005	<0.005	<0.005	<0.015
4/14/05	EXC. #2 West Wall	<10	<0.005	<0.005	<0.005	<0.015
4/14/05	EXC. #2 Bottom Hole	<10	<0.005	<0.005	<0.005	<0.015
4/14/05	EXC. #2 East Wall	57.9	<0.005	<0.005	<0.005	<0.015
4/14/05	EXC. #3 North Wall	<10	<0.005	<0.005	<0.005	<0.015
4/14/05	EXC. #3 West Wall	<10	<0.005	<0.005	<0.005	<0.015
4/14/05	EXC. #3 East Wall	22.6	<0.005	<0.005	<0.005	<0.015
4/14/05	EXC. #3 Bottom Hole	748	<0.005	<0.005	<0.005	<0.015

On April 25, 2005 three test trenches were installed on the northeast side of the pond. Composite samples were retrieved from the bottom hole and sidewalls of the test trenches. Excavation #3 was additionally excavated and a composite sample was retrieved from the bottom hole. All samples were transported under Chain of Custody to Cardinal Laboratories for analysis. The samples were analyzed for TPH (EPA Method 418.1). The results of the analysis are as follows:

Date	Sample ID	TPH
4/25/05	Trench # 1 Bottom Hole	<10
4/25/05	Trench # 1 Side Walls	<10
4/25/05	Trench # 2 Bottom Hole	23.7
4/25/05	Trench # 2 Side Walls	502
4/25/05	Trench # 3 Bottom Hole	<10
4/25/05	Trench # 3 Side Walls	<10
4/25/05	Excavation # 3 Bottom Hole	<10

Approximately 540 cubic yards of soil from the additional excavations was transported to Artesia Aeration, an NMOCD approved facility, for disposal. The excavations were backfilled with clean soil from the landowner.

VII. Figures & Appendices

Figure 1 - Vicinity Map Figure 2 - Site Plan Appendix A - C-141 Appendix B - Analytical Results Appendix C - Site Photos

Figure 1 Vicinity Map

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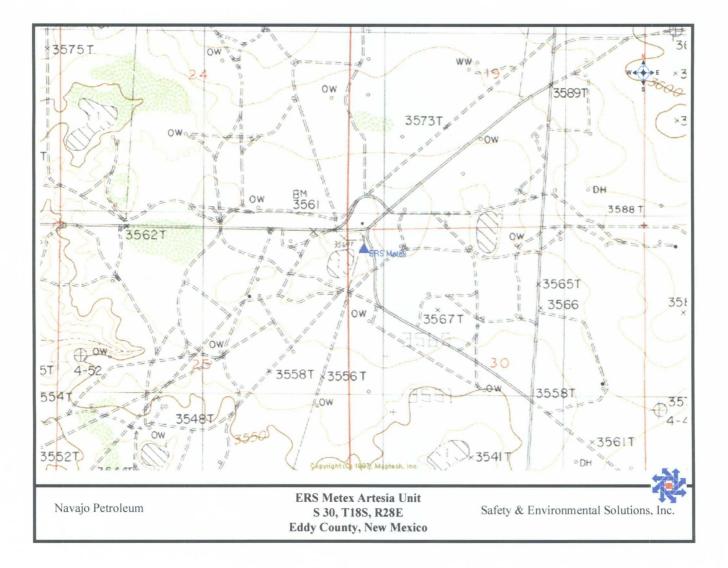
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Figure 2 Site Plan

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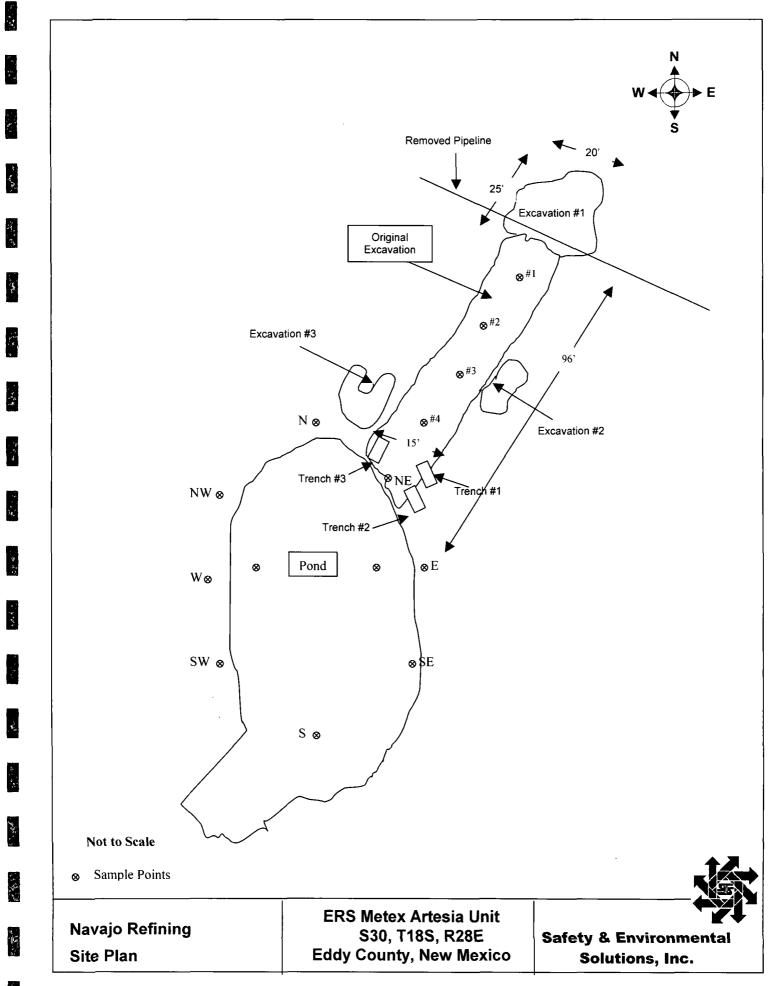
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State of New Mexico Energy Minerals and Natural Resources

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

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

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* Attach Additional Sheets If Necessary

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Appendix B Analytical Results

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PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC. ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (505) 393-4388

Receiving Date: 01/21/05 Reporting Date: 01/25/05 Project Number: NAV-04-008 Project Name: MRS METER ARTESIA UNIT Project Location: NOT GIVEN

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94 94 Sampling Date: NOT GIVEN Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: BC

LAB NO.	SAMPLE ID	TPH (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS	DATE:	01/24/05	01/24/05	01/24/05	01/24/05	01/24/05
H9495-1	NAVAJO POND #1	48.8	<0.005	< 0.005	< 0.005	<0.015
H9495-2	NAVAJO POND #2	<10	< 0.005	< 0.005	< 0.005	<0.015
H9495-3	NAVAJO POND #3	<10	<0.005	< 0.005	<0.005	<0.015
H9495-4	NAVAJO POND #4	<10	< 0.005	< 0.005	< 0.005	<0.015
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Quality Cor	ntrol	235	0.098	0.090	0.100	0.308
True Value	QC	240	0.100	0.100	0.100	0.300
% Recover	у	98.1	97.8	90.0	99.9	103
Relative Pe	ercent Difference	7.2	5.1	0.1	1.2	2.3

METHODS: TRPHC-EPA 600/4-79-020 418.1; BTEX -EPA SW-846 8260

Date

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 digged tose 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 subsidiares. 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.

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city: HOBBS	State: NM Zip: 88240	Attn:			<u>, , , , , , , , , , , , , , , , , , , </u>	
Phone #: (505) 397-0510	Fax#: (505) 393-4388	Address:				
Project #: NAV = 04 - 008	Project Owner:	Clty:		·/		
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ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC. ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (505) 393-4388

Receiving Date: 01/31/05 Reporting Date: 02/02/05 Project Number: NAV-04-008 Project Name: MEXTEX ARTESIA UNIT Project Location: NOT GIVEN

Sampling Date: 01/31/05 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: AH

	Na	Ca	Mg	К	Conductivity	T-Alkalinity
LAB NUMBER SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(uS/cm)	(mgCaCO ₃ /L)

ANALYSIS [DATE:	02/01/05	02/01/05	02/01/05	02/01/05	02/01/05	02/01/05
H9517-1	EAST SIDE	16	68	29	32	413	192
H9517-2	WEST SIDE	14	52	20	17	402	200
	· · · · · · · · · · · · · · · · · · ·					· · · ·	
Quality Cont	rol	NR	58	54	4.90	1322	NR
True Value (20	NR	50	50	5.00	1413	
% Recovery		NR	116	108	98.0	93.6	NR
Relative Per	cent Difference	NR	3.1	3.8	0.8	0.7	NR
METHODS:		SM3	500-Ca-D	3500-Mg E	8049	120.1	310.1

CI_ SO₄ (mg/L) (mg/L)

 CO_3 (mg/L)

3	HCO ₃	рН
)	(mg/L)	(s.u.)

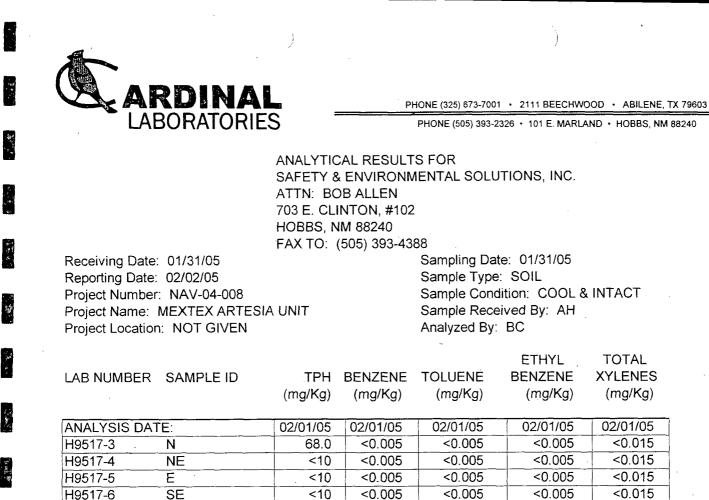
TDS

(mg/L)

ANALYSIS DATE:	02/01/05	02/01/05	02/01/05	02/01/05	02/01/05	02/02/05
H9517-1 EAST SIDE	40	2.71	110	9.76	8.37	318
H9517-2 WEST SIDE	44	1.81	81.6	78.1	8.51	319
Quality Control	930	50.33	NR	961	7.02	NR
True Value QC	1000	50.00	NR	1000	7.00	NR
% Recovery	93.0	101	NR	96.1	100	NR
Relative Percent Difference	1.0	0.2	NR	1.6	0.1	1.4
METHODS:	SM4500-CI-B	375.4	310.1	310.1	150.1	160.1
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be demed waived unless made in writing and received by **Cardinai** within thirty (30) day after completion of the applicable service **Job b v**ent 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.



METHODS: TRPHC-EPA 600/4-79-020 418.1; BTEX -EPA SW-846 8260

17.5

50.6

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H9517-10

Quality Control

True Value QC

Relative Percent Difference

% Recovery

12/05

Date

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ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC. ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (505) 393-4388

Receiving Date: 01/31/05 Reporting Date: 02/02/05 Project Number: NAV-04-008 Project Name: MEXTEX ARTESIA UNIT Project Location: NOT GIVEN Sampling Date: 01/31/05 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DA	ATE	02/01/05	02/01/05	02/01/05	02/01/05
H9517-1	EAST SIDE	< 0.002	< 0.002	< 0.002	<0.016
H9517-2	WEST SIDE	<0.002	<0.002	< 0.002	<0.016
					· .
Quality Contro)	0.101	0.093	0.099	0.312
True Value Q0)	0.100	0.100	0.100	0.300
% Recovery		101	92.7	99.0	104.0
Relative Perce	ent Difference	6.5	2.0	1.2	0.8

METHOD: EPA SW-846 8260

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Company Name:	(23)									ANALYSIS	•	REQUEST					
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ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC. ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (505) 393-4388

Receiving Date: 04/08/05 Reporting Date: 04/13/05 Project Number: NAV 04-008 Project Name: ERS METEX ARTESIA UNIT Project Location: ARTESIA, NM Analysis Date: 04/12/05 Sampling Date: 04/08/05 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC

LAB NUMBER SAMPLE ID

TPH (mg/Kg)

H9693-1 E	BOTTOM HOLE	<10
	·	
<u></u>	4	
Quality Control		224
True Value QC		240
% Recovery	· · · · · · · · · · · · · · · · · · ·	93.4
Relative Percent Di	fference	7.3

METHOD: EPA 418.1

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Date

Date

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, individual particular partity particular particular partity particula

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* Cardinal cannot accept verbal changes. Please fax written changes to (915) 673-7020.	Sample Condition	Racelved By: (Lab Statt)	-	Sampler Relinquished: Date: Received By:	nayyee. At dains including their for relations and any other cause intercover shall be demond volved invitions in the source by Courts' with 30 days after one completely earlies. In no event shall Cardinal be jable for indefinit or consequential analyses, including without introduced interfaces, here of uses of used to be profit biorands by definit and consequential analyses, include a matching without interfaces and the based uses of uses	*LESE HOTE: Labdry and Damages. Cardinal's lability and client's exclusive nomedy for any claim aroung whether based in contract or tore, shall be knited to the answing had by the client for the								(G)RAB ÓR (C)OMP. # CONTAINER3 GROUNDWATER WASTEWATER SOIL	MATRIX			-Christ		5) 393-4388	zip: 88240			S S	603 020
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ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC. ATTN: BOB ALLEN 701 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (505) 393-4388

Receiving Date: 04/12/05 Reporting Date: 04/14/05 Project Number: NAV-04-008 Project Name: METEX Project Location: ARTESIA, NM Sampling Date: 04/11/05 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC

					ETHYL	TOTAL
LAB NO.	SAMPLE ID	TPH	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			•	•		
ANALYSIS	DATE:	04/12/05	04/13/05	04/13/05	04/13/05	04/13/05
H9697-1	BOTTOM HOLE	<10	< 0.005	<0.005	< 0.005	< 0.015
H9697-2	NORTH WALL	<10	< 0.005	< 0.005	< 0.005	<0.015
H9697-3	WEST WALL	15500	-	-	-	-
H9697-4	SOUTH WALL	· <10	< 0.005	< 0.005	< 0.005	< 0.015
H9697-5	EAST WALL UPPER	12000	-	-	-	-
H9697-6	EAST WALL LOWER	.<10	< 0.005	< 0.005	< 0.005	< 0.015
Quality Con	trol	227	0.097	0.090	0.093	0.291
True Value	QC	240	0.100	0.100	0.100	0.300
% Recovery	1	94.7	97.3	90.1	92.6	97.1
Relative Pe	rcent Difference	11.3	6.5	0.6	2.7	4.4

METHODS: TRPHC-EPA 600/4-79-020 418.1; BTEX -EPA SW-846 8260

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+ Cardinal cannot accept verbal changes, Please fax written changes to (915) 673-7020	Sample Condition	Received By: (Lab Staff)			naiyees. Al datas indusing thesis for mplightness and any other causes interfaces whead to channed unaived in the interface and incomed by Cardinal within 30 days ather completion of the applicable service. In no event shall Cardinal be lights for incidential or consequential samples, including without initiation, business interplation, bee of use, or lows of profits insured by clard, be advident initiation, inflations or services an abund on the two performance of services hersender by Candinal, repairedens of whether such classics to post of our related measure or otherwise.	PLEASE HOTE: Labshry and Demages. Cardinals habitry and clears's exclusive remarkly for any clearn article, whether based in contract or for shall be knowed based by the cleart for the			6-11		1G11 X		6114		(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	MATRIX) 393-4388	Zip: 88240			S	03 101 East Marland, Hobbs, NM 88240)20 (605) 393-2326 Fax (606) 393-2476	
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ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC. ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (505) 393-4388

Receiving Date: 04/14/05 Reporting Date: 04/21/05 Project Number: NOT GIVEN Project Name: METEX NAVAJO Project Location: ARTESIA, NM

Sampling Date: NOT GIVEN Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: GP/BC

LAB NO.	SAMPLE ID	TPH	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			·,			
ANALYSIS	DATE:	04/15/05	04/20/05	04/20/05	04/20/05	04/20/05
H9714-1	EXC. #1 UPPER WEST	294	<0.005	< 0.005	<0.005	<0.015
H9714-2	EXC. #2 NORTH WALL	<10	<0.005	< 0.005	<0.005	<0.015
H9714-3	EXC. #2 WEST WALL	<10	<0.005	< 0.005	<0.005	< 0.015
H9714-4	EXC. #2 BOTTOM HOLE	<10	<0.005	< 0.005	<0.005	<0.015
H9714-5	EXC. #2 EAST WALL	57.9	<0.005	< 0.005	<0.005	<0.015
H9714-6	EXC. #3 NORTH WALL	<10	<0.005	<0.005	<0.005	<0.015
H9714-7	EXC. #3 WEST WALL	<10	<0.005	<0.005	< 0.005	<0.015
H9714-8	EXC. #3 EAST WALL	22.6	< 0.005	< 0.005	<0.005	<0.015
H9714-9	EXC. #3 BOTTOM HOLE	748	<0.005	< 0.005	<0.005	<0.015
Quality Cor	ntrol	227	0.091	0.088	0.094	0.298
True Value	QC	240	0.100	0.100	0.100	0.300
% Recover	у	94.7	90.7	87.6	94.4	99.2
Relative Pe	ercent Difference	11.3	3.5	7.2	3.9	5.3

METHODS: TRPHC-EPA 600/4-79-020 418.1; BTEX -EPA SW-846 8260

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. PLEASE NOTE: Lability and Damages. Cardinar's liability and client's exclusive remedy for any claim ansing, whether based in contract or fort, shall be immed 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. If by event shall 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.

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AKL	AKUINAL LAB UKA I UKIES, IIVC. 2111 Beectwood, Abilene, TX 79 (915) 873-7001 Fax (915) 873-7	603 020	101 East Marland, Hobbs, NM 88240 (605) 393-2328 Fax (605) 393-2476	9 8, NM 88240 5) 393-2476					Page	2
Company Name:	SAFETY & ENVI	S	SOLUTIONS		BILL TO			ANALYSIS	REQUEST	
Project Maninger:				P.O.#:				,		
Address: 703	E.CLINTON, #10	02		Company: SP	AME			• 		
city: HOBBS		State: NM Zip:	: 88240	Attn:			 			
Phone #: (505	5) 397-0510	Fax#: (505) 3	393-4388	Address:						
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FORLABUSEONLY		· · ·	MATRIX	PRESERV-	SAMPLING		<u>4/</u>			
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JPS -	(Circle One) / Bus - Other:		Temp, C Intact?	7 By: (Initials)			•	<i>.</i>		
† Cardinal cann	Cardinal cannot accept verbal changes. Please fax written changes to (915) 673-7020.	Please fax written chan	ges to (915) 673-7020.							-

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PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC. ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (505) 393-4388

Receiving Date: 04/26/05 Reporting Date: 04/29/05 Project Number: NAV 04 008 Project Name: METEX Project Location: ARTESIA, NM Analysis Date: 04/27/05 Sampling Date: 04/25/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC

LAB NO.

SAMPLE ID

TPH (mg/Kg)

H9754-1	TRENCH #1 BOTTOM HOLE	<10
H9754-2	TRENCH #1 SIDE WALLS	<10
H9754-3	TRENCH #2 BOTTOM HOLE	23.7
H9754-4	TRENCH #2 SIDE WALLS	502
H9754-5	TRENCH #3 BOTTOM HOLE .	<10
H9754-6	TRENCH #3 SIDE WALLS	<10
H9754-7	EXCAVATION #3 BOTTOM HOLE	<10
Quality Cont	rol	234
True Value C	2C	240
% Recovery		97.6
Relative Per	cent Difference	5.4

METHOD: EPA 418.1

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 not work shall 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.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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	RATORIES, I	
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(325) 673-7001 Fax (325) 673-7020)20 (505) 393-2326 Fax (505) 393-2476		Page	of
Company Name:				
roject Manager:	٧Y	ί Γ		
Address: TOS E. Chater	Company:			· ·
Sity: 170625 State: NIV	ZIp: 88240 Attn:			
1000 #: 505 517-0520 Fax #: 505	5913-4528 Address:			
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Sampler Name: Server Country e1245	Fax #:			
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19754 -1 Trench #1 & How Hole		رکار ا	,	
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LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing whether based in contract or tort, shall be limited to the amount paid by the client for the whyse. All claims inductions that any other cause whethower shall be deemed whethower the the induction of the applicable of the shall be deemed whethower shall be deemed whethower the state concells to the client for the clie	ig whether based in contract or (wt, shall be limited to the amount hald by the client by the made in writing and resched by Curdial within 30 days after completion of the applicable base dearnahow in an of the or the of works during the rest by Cirdial Based and the schedule of the		Yerns 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 inwice. and all roots of reliefions including attorney's bes.	nore than date of involce,
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+ Cardinal cannot accept verbal changes. Please fax written changes to (325) 673-7020.	changes to (325) 673-7020			

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Appendix C Site Photos

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1. B. L.

Balange -



Initial Response



Initial Response



Skim Operation East of Pond

and and



Skim Operation East Side of Pond



Skim Operation, Boom East Side of Pool



Leak Site



L. C. L.

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Leak Site & Pond Looking Southwest



Pond w/Boom



Skim Operation



Burning Operation



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Burning Operation



Burning Operation



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and the second

No. of Lot of Lo

Site Facing North



Site Facing Northeast



The second

Site Facing West