GW - 028

ANNUAL REPORT

GW Monitor Wells

2009

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Friday, April 16, 2010 11:39 AM
To: 'Moore, Darrell'
Subject: Navajo Refining Company- Artesia (GW-028) & Lovington (GW-014) Refineries Annual Reports and "Ground Water & Treatment System Annual Monitoring Report for Lea Refinery (Lovington)

Darrell:

The OCD is in receipt of the above subject reports.

Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

REFINING COMPANY, LLC

FAX
(575) 746-5283 DIV. ORDERS
(575) 746-5481 TRUCKING
(575) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159
TELEPHONE (575) 748-3311

FAX
(575) 746-5419 ACCOUNTING
(575) 746-5451 ENV/PURCH/MKTG
(575) 746-5421 ENGINEERING

April 15, 2010

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division,
Environmental Bureau
1220 South St. Francis Dr.,
Santa Fe, New Mexico 87505

RE: 2009 ANNUAL REPORT FOR ARTESIA (GW-028)
NAVAJO REFINING COMPANY, LLC

Dear Carl,

Enclosed, please find the annual report for Navajo Refining Company Discharge Permit GW-028. If there are any questions concerning these submissions, please call me at 575-746-5281. Thank you for your attention to this matter.

Sincerely,
NAVAJO REFINING COMPANY, LLC

Darrell Moore
Environmental Manager for Water and Waste

Encl:

File: Artesia OCD Discharge Permit 5E4B

2009 ANNUAL REPORT
NAVAJO REFINING COMPANY
DISCHARGE PERMIT GW-028

EXECUTIVE SUMMARY

This report is being written as a requirement of Navajo Refining Company's Discharge Permit GW-028 which states that an Annual Report will be written by April 15 of each year and will include at a minimum :

A. A summary of all major refinery activities or events.

B. Results of all sampling or monitoring events.

C. Summary of the sump and underground wastewater lines tested.

D. Summary of all leaks, spills, and releases and corrective action taken.

E. Summary of discovery of new groundwater contamination.

F. Summary and copy of all EPA/NMED RCRA Activity.

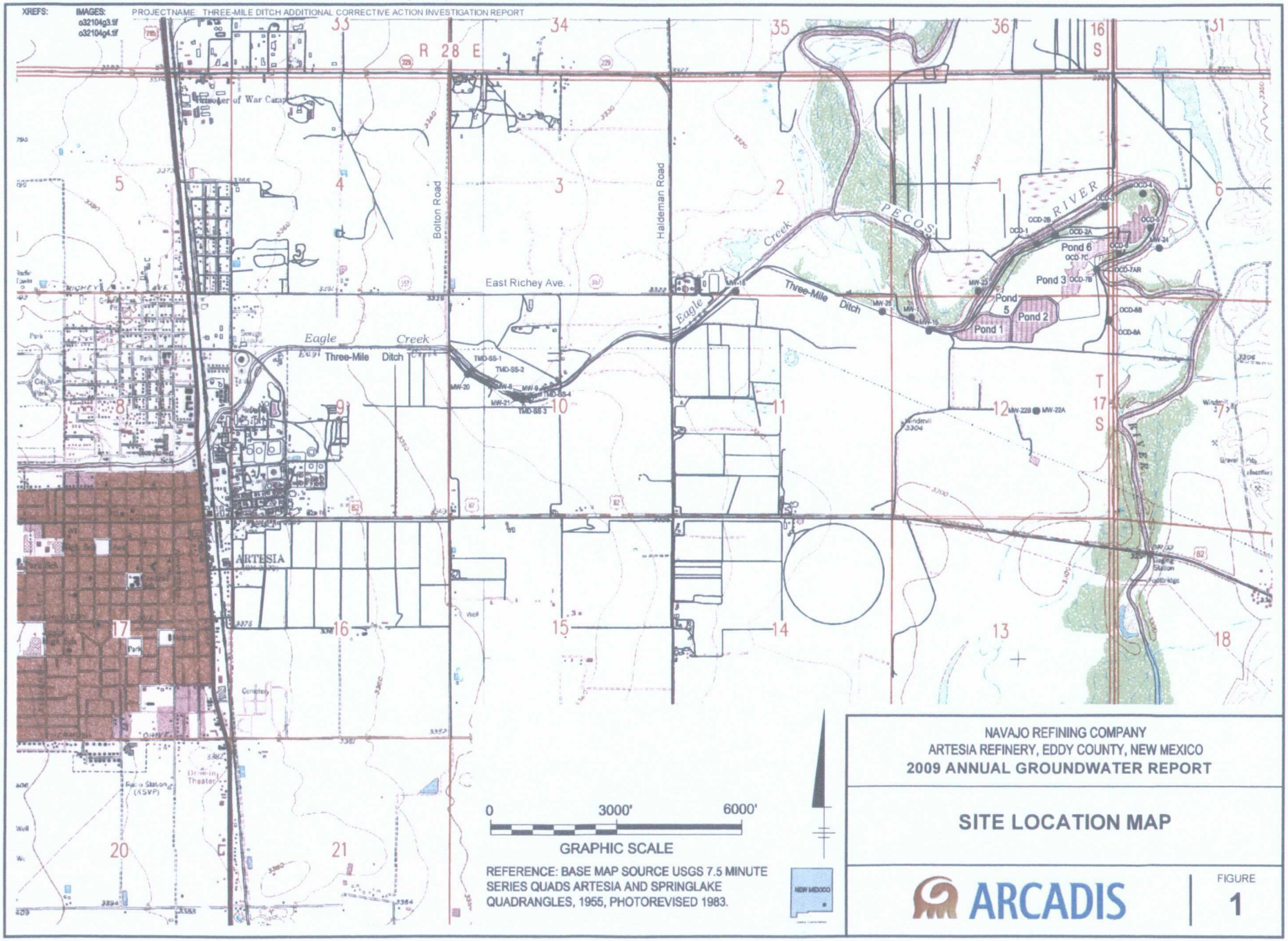
2009 was an eventful year at Navajo with the major highlight being an expansion that boosted production at the refinery to 100,000 bbls a day. This expansion included building new units, new tanks, and adding infrastructure to accommodate the expansion. While most of the construction of these units occurred in 2008, the actual start-ups occurred in 2009.

We also performed the two semi-annual sampling events that include over 100 monitor wells stretching from the refinery east to the evaporation ponds. (Figure 1) Those results are included in the ***"2009 Annual Groundwater Report"*** that is sent to OCD under separate cover. However, highlights and results in the form of a spreadsheet will be included here. (Table 1)

As part of our ongoing work, we test 20% of the sumps and underground wastewater lines every year. By doing this, we ensure that all lines are tested every 5 years. A spreadsheet and analysis is included later in this report that summarizes those test results and any repairs that were necessary. (Table 4)

Unfortunately, during the year Navajo experienced several spills and fires that required reporting. Navajo's policy on spills is to remove contaminated soil and dispose. Reportable spills, releases and fires numbered twenty-one (21). There were eleven (11) spills ranging from hydrocarbon to mercury to Process WasteWater and ten (10) fires

CITY: MID-TX DIV 85/GROUP: ENV DB: HC LD: PIC: PM: SH TM: LYR: ON=*;OFF=*REF* UN: 31-009-00403
G:\CAD\ACT\MT000980\0001\0001\DWG\00980901.DWG LAYOUT: 1 SAVED: 3/18/2008 11:43 AM ACADVER: 17.0S (LMS TECH) PAGESETUP: — PLOTSTYLETABLE: AGANDM.CTB PLOTTED: — BY: CLARDY, HERB
XREFS: IMAGES: o32104g3.tif o32104g4.tif PROJECTNAME: THREE-MILE DITCH ADDITIONAL CORRECTIVE ACTION INVESTIGATION REPORT



REFERENCE: BASE MAP SOURCE USGS 7.5 MINUTE SERIES QUADS ARTESIA AND SPRINGLAKE QUADRANGLES, 1955, PHOTOREVISED 1983.

NAVAJO REFINING COMPANY
ARTESIA REFINERY, EDDY COUNTY, NEW MEXICO
2009 ANNUAL GROUNDWATER REPORT

SITE LOCATION MAP

ARCADIS

FIGURE
1

during 2009. The hydrocarbon spills, of which there were four (4) accounted for a total of 515 barrels of hydrocarbons spilled with 260 of those barrels recovered by vacuum truck. We also had five (5) spills of Process Wastewater resulting a loss of 245 bbls with 193 of those bbls recovered by vacuum truck. We also had two spills of K170 hazardous waste with a loss of 335 bbls total and a recovery of 268 bbls by vacuum truck. Finally, we discovered an historical mercury spill in the south plant. Each of those C-141's is included.

During the year, we found no new groundwater contamination. We continue to remediate known areas of contamination and have upgraded our remediation program to be more aggressive in recovering free phase hydrocarbons. This includes hiring one person whose sole job is to maintain recovery wells, bail wells that have no pump, and maintain records of those activities. Those steps will be expanded on in the section on remediation.

MAJOR REFINERY ACTIVITIES

In 2009, Navajo finished construction on several new units that increased our output to 100,000 bbls a day. These units include a Mild Hydrocracking Unit (MHU), a Hydrogen Unit, a new ROSE Unit, and a new Sulphur Recovery Unit (SRU).

The Mild Hydrocracking Unit takes Gas Oil and partially "cracks" part of this feed into naphtha and diesel. The rest of the feed is sweetened for FCC feed. The Mild Hydrocracker uses hydrogen to "crack' the molecules in the gas oil. That is why a new hydrogen unit was also built.

The **R**esiduum **O**il **S**upercritical **E**xtraction Unit or ROSE Unit will deasphalt vacuum residue. The deasphalted oil (DAO) extracted by the ROSE process is a premium feed for the fluid catalytic cracking (FCC) unit. This gives Navajo a cost effective means to produce FCC feedstock from asphalt which enables us to make more gasoline from each barrel of crude. Additionally, the ROSE unit enables Navajo to process a wider variety of crudes and improves our asphalt quality.

The new Sulphur Recovery Unit (SRU) is a 100 ton/day SRU that removes sulphur from our products. As you probably know, Navajo already had one SRU. The new SRU is for added sulphur recovery capacity due to the expansion.

RESULTS OF SAMPLING AND MONITORING EVENTS

The activities performed during 2009 included installation of additional groundwater monitoring wells in support of various investigations, as well as collection of field data, collection of groundwater samples for chemical analyses, and remediation system monitoring. Analytical results are shown in Table 1. Summary of field observations are shown in Table 2. We have also included the RO Reject analytical data in Table 3. There are no new surprises in this stream as it has stayed consistent for well over 10 years. Some exceptions to the planned groundwater monitoring occurred, as follows:

Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

			TPH		Metals													Volatile Organic Compounds					
			DRO	GRO	Aluminum	Arsenic	Barium	Boron	Cadmium	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Selenium	Silver	Zinc	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	2-Butanone (MEK)	2-Phenyl butane (sec-butylbenzene)	4-Methyl-2-Pentanone (MIBK)	Acetone
		Units:	mg/L	mg/L	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
		CGWSL:	2.00E-01	--	5.00E+00	1.00E-02	2.00E+00	7.50E-01	5.00E-03	1.00E-01	1.00E+00	1.50E-02	--	2.00E-01	2.00E-03	5.00E-02	5.00E+01	1.00E+01	--	--	7.06E+03	--	1.99E+03	2.18E+04
		Source:	NMED TPH	--	WQCC Irr	EPA MCL	EPA MCL	WQCC Irr	EPA MCL	EPA MCL	WQCC Dom	EPA MCL	--	WQCC Dom	EPA MCL	EPA MCL	WQCC HH	WQCC HH	--	--	NMED TW	--	NMED TW	NMED TW
Location	Dup	Date																						
KWB-1A		04/07/2009	<0.05			<0.01	<0.01		<0.004	<0.01		<0.01	308			<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
KWB-1A		09/29/2009	<0.05			0.00709	0.00975		<0.002	<0.005		<0.005	322		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
KWB-1C		04/07/2009	<0.05			<0.01	0.0104		<0.004	<0.01		<0.01	293			<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
KWB-1C		09/29/2009	<0.05			<0.005	0.00846		<0.002	<0.005		<0.005	300		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
KWB-3AR		04/09/2009	<0.05			<0.01	0.0242		<0.004	<0.01		<0.01	273		<0.0002	0.0146	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
KWB-3AR		09/29/2009	<0.05			0.00559	0.0159		<0.002	<0.005		<0.005	307		<0.0002	0.0183	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
KWB-7		04/07/2009	<0.05			<0.01	0.0343		<0.004	<0.01		<0.01	202			0.0135	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
KWB-7		10/05/2009	<0.05			0.00529	0.0331		<0.002	<0.005		<0.005	224		<0.0002	0.0069	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
KWB-9		04/08/2009	<0.05			<0.01	0.0109		<0.004	<0.01		<0.01	176			<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
KWB-9		09/29/2009	<0.05			<0.005	0.0113		<0.002	<0.005		<0.005	179		<0.0002	0.0064	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
KWB-10		04/07/2009	*0.33*									*0.0196*						<0.01	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
KWB-11A		04/07/2009	<0.05			<0.01	0.0215		<0.004	<0.01		<0.01	220			0.0255	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
KWB-11A		10/05/2009	<0.05			<0.005	0.0208		<0.002	<0.005		<0.005	218		<0.0002	0.0116	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
KWB-12A		09/29/2009	<0.05			<0.005	0.0173		<0.002	<0.005		<0.005	229		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
KWB-13		04/13/2009	<0.05			<0.01	0.0186		<0.004	<0.01		<0.01	220		<0.0002	0.0181	<0.01		< 5.0	< 5.0	< 10.0	< 5.0	< 10.0	< 10.0
KWB-13	Dup #6	04/13/2010	*<0.05*			*<0.01*	0.0202		<0.004	<0.01		<0.01	230		<0.0002	0.0203	<0.01		< 5.0	< 5.0	< 10.0	< 5.0	< 10.0	< 10.0
KWB-13		09/29/2009	<0.05			<0.005	0.0183		<0.002	<0.005		<0.005	217		<0.0002	0.0169	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
KWB-P2		04/09/2009	<0.05			<0.01	0.0703		<0.004	<0.01		<0.01	294		<0.0002	0.0102	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-1R		04/02/2009	<0.05			<0.01	0.025		<0.004	<0.01		<0.01	264		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-1R		09/23/2009	<0.05			<0.005	0.02		<0.002	<0.005		<0.005	179		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-2A		04/01/2009	0.099	<0.05		*0.0142*	0.0266		<0.004	<0.01		<0.01	402		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	15
MW-2A		04/02/2009	*2.2*	5.78		*0.302*	0.0141		<0.004	<0.01		*<0.01*	*480*		*<0.0002*	*<0.01*	*<0.01*		< 5.0	< 5.0	< 10	< 5.0	< 10	12
MW-2A		09/21/2009	0.094			*0.0131*	0.0199		<0.002	<0.005		<0.005	187		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-3		04/01/2009	*1*	0.27		*0.03*	0.0145		<0.004	<0.01		<0.01	144		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	15
MW-3		09/21/2009	*1.3*	0.447		*0.0413*	0.0152		<0.002	<0.005		<0.005	139		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	15
MW-4A		04/06/2009	*0.79*	0.328		*0.093*	0.0146		<0.004	<0.01		<0.01	146			<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-4A		09/23/2009	*0.97*	0.339		*0.157*	0.0127		<0.002	<0.005		<0.005	162		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	13
MW-5A		09/22/2009	*4.6*	5.7		*0.232*	0.0143		<0.004	<0.01		<0.01	555		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	22
MW-5A	Dup #3	09/22/2009	*4.9*	5.54		*0.235*	0.0146		<0.002	<0.005		<0.005	618		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	24
MW-6A		04/01/2009	*1.5*	0.41		*0.0141*	0.0142		<0.004	<0.01		<0.01	97.3		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-6A		09/21/2009	*1.5*	0.264		*0.0112*	0.0126		<0.002	<0.005		<0.005	90.9		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-7A		04/02/2009	*0.51*	0.602		*0.0404*	0.0157		<0.004	<0.01		<0.01	297		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-7A		09/22/2009	*0.84*	0.51		*0.0325*	0.0146		<0.002	<0.005		<0.005	260		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-8		04/03/2009	<0.05			<0.01	0.0141		<0.004	0.0137		<0.01	284		<0.0002	0.0139	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-8		10/05/2009	<0.05			0.00953	0.015		<0.002	0.0335		<0.005	414		<0.0002	0.0222	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-9		04/03/2009	<0.05			*0.0104*	0.011		<0.004	<0.01		<0.01	455		<0.0002	0.0348	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-9		10/05/2009	<0.05			*0.0106*	0.0107		<0.002	0.0056		<0.005	386		<0.0002	0.0363	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-10		04/06/2009	*0.97*	1.51		*0.025*	0.0355		<0.004	<0.01		<0.01	133			<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-10		09/23/2009	*1.1*	1.23		*0.0197*	0.00999		<0.002	<0.005		<0.005	136		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-11A		04/02/2009	<0.05	<0.05		<0.01	0.0314		<0.004	<0.01		<0.01	478		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-11A		09/22/2009	<0.05	<0.05		<0.01	0.0319		<0.004	<0.01		<0.01	425		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-15		04/06/2009	*0.67*	0.515		*0.0958*	0.0321		<0.004	<0.01		<0.01	133			<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-15		09/23/2009	0.16	0.108		*0.0185*	0.0201		<0.002	<0.005		<0.005	140		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-16		04/02/2009	<0.05			<0.01	0.0188		<0.004	<0.01		<0.01	234		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-16	Dup #3	04/02/2009	<0.05			<0.01	0.0204		*<0.004*	<0.01		*<0.01*	239		*<0.0002*	*<0.01*	*<0.01*		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-16		09/17/2009	<0.05			0.00711	0.0203		<0.002	<0.005		<0.005	212		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-17		04/09/2009				<0.01	0.0144		<0.004	<0.01		<0.01	97.5		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-17		09/28/2009	<0.05			<0.005	0.0166		<0.002	<0.005		<0.005	87.1		<0.0002	0.0106	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-17	Dup #7	09/29/2009	<0.05			<0.005	0.0166		<0.002	<0.005		<0.005	85.4		<0.0002	0.0121	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-18		04/13/2009	*0.28*	<0.05		<0.01	0.0135		<0.004	<0.01		<0.01	181		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-18		09/24/2009	*0.38*	<0.05		<0.005	0.0118		<0.002	<0.005		<0.005	200		*<0.0002*	*0.00821*	*<0.005*		*< 5.0*	*< 5.0*	*< 10*	*< 5.0*	*< 10*	*< 10*

Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

			TPH		Metals													Volatile Organic Compounds					
			DRO	GRO	Aluminum	Arsenic	Barium	Boron	Cadmium	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Selenium	Silver	Zinc	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	2-Butanone (MEK)	2-Phenyl butane (sec-butylbenzene)	4-Methyl-2-Pentanone (MIBK)	Acetone
		Units:	mg/L	mg/L	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
		CGWSL:	2.00E-01	--	5.00E+00	1.00E-02	2.00E+00	7.50E-01	5.00E-03	1.00E-01	1.00E+00	1.50E-02	--	2.00E-01	2.00E-03	5.00E-02	5.00E+01	1.00E+01	--	--	7.06E+03	--	1.99E+03	2.18E+04
		Source:	NMED TPH	--	WQCC Irr	EPA MCL	EPA MCL	WQCC Irr	EPA MCL	EPA MCL	WQCC Dom	EPA MCL	--	WQCC Dom	EPA MCL	EPA MCL	WQCC HH	WQCC HH	--	--	NMED TW	--	NMED TW	NMED TW
Location	Dup	Date																						
MW-18A		04/02/2009	0.24			<0.01	0.0183		<0.004	<0.01		<0.01	866		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-18A		09/22/2009	0.24			0.00873	0.0172		<0.002	<0.005		<0.005	851		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-20		04/03/2009	<0.05			<0.0100	<0.0100		<0.00400	<0.0100		<0.0100	550		<0.000200	0.0157	<0.0100		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-20		10/05/2009	<0.05			0.00887	0.00769		<0.002	<0.005		<0.005	427		<0.0002	0.013	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-21		04/03/2009	<0.05			<0.01	<0.01		<0.004	<0.01		<0.01	430		<0.0002	0.0261	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-21		10/05/2009	<0.05			0.00883	0.00799		<0.002	<0.005		<0.005	378		<0.0002	0.0247	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-22A		04/06/2009	2.8	6.87		0.0561	0.0162		<0.004	<0.01		<0.01	155			<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	22
MW-22A		09/23/2009	3	6.01		0.0505	0.0154		<0.002	<0.005		<0.005	167		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	22
MW-23		04/14/2009	17			0.0212	15.3		<0.004	<0.01		<0.01	132		<0.0002	<0.01	<0.01		580	90	< 10	36	< 10	< 10
MW-23		09/28/2009	3.7			0.0182	4.59		<0.002	<0.005		<0.005	141		<0.0002	<0.005	<0.005		110	89	< 10	8.1	< 10	< 10
MW-25		04/06/2009	<0.05			<0.01	0.0103		<0.004	<0.01		<0.01	139			0.0232	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-25		09/23/2009	<0.05			<0.005	0.0112		<0.002	<0.005		<0.005	126		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-26		04/02/2009	<0.05			<0.01	<0.01		<0.004	<0.01		<0.01	522		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-26		09/17/2009	<0.05			<0.005	0.00818		<0.002	<0.005		<0.005	328		<0.0002	0.00535	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-27		04/03/2009	<0.05			<0.01	0.0149		<0.004	<0.01		<0.01	94.2		<0.0002	0.0118	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-27		09/17/2009	<0.05			<0.005	0.0156		<0.002	<0.005		<0.005	92.2		<0.0002	0.0135	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-28		04/14/2009	3			<0.01	0.0321		<0.004	<0.01		<0.01	209		<0.0002	<0.01	<0.01		190	< 5.0	< 10	12	< 10	< 10
MW-28		09/25/2009	1.6			<0.005	0.0299		<0.002	<0.005		0.00771	184		<0.0002	<0.005	<0.005		14	25	< 10	5.3	< 10	< 10
MW-29		04/13/2009	0.53			0.0274	0.0173		<0.004	<0.01		<0.01	320		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-29		09/24/2009	0.46			0.0072	0.0222		<0.002	<0.005		<0.005	333		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-41		04/13/2009	1			0.0181	0.0271		<0.004	<0.01		<0.01	348		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-41		09/24/2009	1.1			0.0138	0.0179		<0.002	<0.005		<0.005	257		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-42	Dup #7	04/13/2009	2.2			0.0154	0.0256		<0.004	<0.01		<0.01	292		<0.0002	<0.01	<0.01		270	9	< 10	17	< 10	< 10
MW-42		04/13/2009	2.6			0.015	0.0268		<0.004	<0.01		<0.01	278		<0.0002	<0.01	<0.01		250	9.3	< 10	17	< 10	< 10
MW-42		09/24/2009	1.3			0.0136	0.0224		<0.002	<0.005		<0.005	282		<0.0002	<0.005	<0.005		56	26	< 10	5.9	< 10	< 10
MW-43		04/14/2009	5.7			0.0126	0.903		<0.004	<0.01		<0.01	107		<0.0002	<0.01	<0.01		200	23	< 10	17	< 10	< 10
MW-43		09/28/2009	2			0.0119	0.213		<0.002	<0.005		<0.005	107		<0.0002	<0.005	<0.005		81	52	< 10	7.9	< 10	< 10
MW-45		04/06/2009	0.37			<0.01	0.0147		<0.004	<0.01		<0.01	209			0.0112	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-45		09/24/2009	0.33			<0.005	0.0146		<0.002	<0.005		<0.005	257		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-49		04/14/2009	1.9	4.27		<0.01	0.0486		<0.004	<0.01		<0.01	180		<0.0002	<0.01	<0.01		92	12	< 10	6.5	< 10	< 10
MW-50		04/09/2009	0.36			<0.01	0.0208		<0.004	<0.01		<0.01	164		<0.0002	<0.01	<0.01		< 5.0	< 5.0	33	6	< 10	< 10
MW-50		09/28/2009	0.12			<0.005	0.0205		<0.002	<0.005		<0.005	162		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-50	Dup #6	09/28/2009	0.12			<0.005	0.026		<0.002	<0.005		<0.005	174		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-52		04/08/2009	0.084			<0.01	0.0106		<0.004	<0.01		<0.01	159			<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-52		09/30/2009	0.08			0.00568	0.0109		<0.002	<0.005		<0.005	149		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-52	Dup #8	09/30/2009	0.11			0.00588	0.011		<0.002	<0.005		<0.005	171		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-53		04/08/2009	<0.05			<0.01	0.0347		<0.004	<0.01		<0.01	167			<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-53		10/05/2009	<0.05			<0.005	0.0293		<0.002	<0.005	<0.2	<0.005	157	2.06	<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-54A		04/08/2009	0.42			<0.01	0.0167		<0.004	<0.01		<0.01	114			<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-54A		10/05/2009	0.3			0.0152	0.0166		<0.002	<0.005	<0.2	<0.005	126	0.52	<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-54A	Dup #11	10/05/2009	0.29			0.0174	0.0185		<0.002	<0.005		<0.005	123		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-55		04/10/2009	<0.05			<0.01	0.016		<0.004	<0.01		<0.01	308		<0.0002	0.0128	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-55		09/24/2009	0.059			0.00525	0.00838		<0.002	<0.005	<0.2	<0.01	342	0.0573	<0.0002	0.0184	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-56		04/10/2009	<0.05			<0.01	0.0142		<0.004	<0.01		<0.01	270		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-56		09/24/2009	0.073			0.00685	0.0136		<0.002	<0.005	<0.2	<0.005	262	0.347	<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-56	Dup #5	09/24/2009	0.067			0.00639	0.0135		<0.002	<0.005		<0.005	251		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-58		04/08/2009	0.68			0.0603	0.373		<0.004	<0.01		<0.01	141			<0.01	<0.01		31	< 5.0	< 10	< 5.0	< 10	< 10
MW-58		09/30/2009	0.73			0.0139	0.612		<0.002	<0.005		<0.005	154		<0.0002	<0.005	<0.005		39	6.8	< 10	< 5.0	< 10	< 10
MW-61		04/09/2009	3.2	16.2		<0.01	0.0556		<0.004	<0.01		<0.01	282		<0.0002	<0.01	<0.01		320	78	< 10	14	< 10	12
MW-61		10/01/2009	1.4	9.8		0.00557	0.0439		<0.002	<0.005		<0.005	298		<0.0002	<0.005	<0.005		180	43	14	6.2	< 10	24

Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

			TPH		Metals													Volatile Organic Compounds					
			DRO	GRO	Aluminum	Arsenic	Barium	Boron	Cadmium	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Selenium	Silver	Zinc	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	2-Butanone (MEK)	2-Phenyl butane (sec-butylbenzene)	4-Methyl-2-Pentanone (MIBK)	Acetone
		Units:	mg/L	mg/L	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
		CGWSL:	2.00E-01	--	5.00E+00	1.00E-02	2.00E+00	7.50E-01	5.00E-03	1.00E-01	1.00E+00	1.50E-02	--	2.00E-01	2.00E-03	5.00E-02	5.00E+01	1.00E+01	--	--	7.06E+03	--	1.99E+03	2.18E+04
		Source:	NMED TPH	--	WQCC Irr	EPA MCL	EPA MCL	WQCC Irr	EPA MCL	EPA MCL	WQCC Dom	EPA MCL	--	WQCC Dom	EPA MCL	EPA MCL	WQCC HH	WQCC HH	--	--	NMED TW	--	NMED TW	NMED TW
Location	Dup	Date																						
MW-62		04/14/2009	7	10.2		0.0192	0.445		<0.004	<0.01		<0.01	106		<0.0002	<0.01	<0.01		140	11	< 10	29	< 10	< 10
MW-62		10/01/2009	1.2	6.61		<0.005	0.89		<0.002	<0.005		<0.005	80.8		<0.0002	<0.005	<0.005		80	8.4	< 10	7.8	< 10	< 10
MW-66		04/14/2009	1.7	12		<0.01	1.45		<0.004	<0.01		<0.01	86.5		<0.0002	<0.01	<0.01		19	< 5.0	< 10	14	< 10	< 10
MW-66		09/25/2009	0.59	12.5		<0.005	1.61		<0.002	<0.005		<0.005	86.4		<0.0002	<0.005	<0.005		7.2	< 5.0	< 10	5.4	< 10	< 10
MW-67		04/14/2009	2.7			<0.01	0.165		<0.004	<0.01		<0.01	108		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	9.2	< 10	< 10
MW-67		10/01/2009	0.67	0.368		<0.005	0.043		<0.002	<0.005		<0.005	142		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-68		04/03/2009	<0.05			<0.01	0.0122		<0.004	<0.01		<0.01	125		<0.0002	0.0163	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-68		09/29/2009	<0.05			0.00566	0.0156		<0.002	<0.005		<0.005	202		<0.0002	0.0379	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-70		04/02/2009	0.8	1.42		0.0213	0.0148		<0.004	<0.01		<0.01	178		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-70		09/22/2009	0.28	1.21		0.0169	0.0164		<0.004	<0.01		<0.01	153		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-72		03/30/2009	0.56	110		0.0909	0.0147		<0.004	<0.01		<0.01	305		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-72		09/18/2009	0.49	0.299		0.125	0.018		<0.002	<0.005		<0.005	311		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-73		03/30/2009	0.98	12		0.107	0.0116		<0.004	<0.01		<0.01	216		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-73		09/18/2009	1.3	0.226		0.112	0.0125		<0.002	<0.005		<0.005	194		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-74		03/30/2009	6	6.87		0.127	0.0141		<0.004	<0.01		<0.01	132		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	15
MW-74		09/18/2009	8.4	1.57		0.102	0.0163		<0.002	<0.005		<0.005	160		<0.0002	0.0187	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	12
MW-75		03/30/2009	5.8	5.59		0.337	0.0177		<0.004	<0.01		<0.01	82.7		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	18
MW-75	Dup #1	09/18/2009	6	3.76		0.374	0.0149		<0.002	<0.005		<0.005	103		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	14
MW-75		09/18/2009	6.2	3.84		0.365	0.014		<0.002	<0.005		<0.005	98.4		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	15
MW-76		03/31/2009	4.2	1.44		0.0627	0.0136		<0.004	<0.01		<0.01	155		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	13
MW-76		09/17/2009	6.5	1.99		0.0723	0.0135		<0.002	<0.005		<0.005	171		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	20
MW-77		03/31/2009	5.4	2.14		0.0931	0.0131		<0.004	<0.01		<0.01	189		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	14
MW-77		09/17/2009	4.8	1.53		0.0856	0.0129		<0.002	<0.005		<0.005	237		<0.0002	0.00574	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	27
MW-78		03/31/2009	7.2	0.726		0.0267	0.0211		<0.004	0.0242		<0.01	184		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	25
MW-78		09/17/2009	5.7	0.628		0.0268	0.0328		<0.002	0.0421		<0.005	248		<0.0002	0.00693	<0.005		5	< 5.0	< 10	< 5.0	< 10	42
MW-79		03/31/2009	0.54	0.235		0.0207	0.0186		<0.004	<0.01		<0.01	140		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-79	Dup #1	03/31/2009	0.57	0.229		0.023	0.0175		<0.0012	<0.01		<0.01	166		<0.00004	<0.01	<0.0014		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-79		09/18/2009	0.51	0.183		0.0165	0.0182		<0.002	<0.005		<0.005	183		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-80		03/31/2009	0.11	0.0528		0.0111	0.0157		<0.004	<0.01		<0.01	134		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-80		09/18/2009	0.15	0.087		0.0146	0.0173		<0.002	<0.005		<0.005	145		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-81		03/31/2009	0.59	0.138		0.0164	0.0185		<0.004	<0.01		<0.01	149		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-81		09/18/2009	0.34	0.135		0.0114	0.0186		<0.002	<0.005		<0.005	166		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-82		03/31/2009	2.6	1.66		0.198	0.0255		<0.004	<0.01		<0.01	79.1		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	11
MW-82		09/21/2009	3	1.61		0.184	0.0214		<0.002	<0.005		<0.005	78.4		<0.0002	0.00534	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	20
MW-83		03/31/2009	7.2	5.32		0.133	0.0159		<0.004	<0.01		<0.01	173		<0.0002	<0.01	<0.01		6.2	< 5.0	< 10	< 5.0	< 10	15
MW-83		09/21/2009	7.3	2.22		0.069	0.0185		<0.002	<0.005		<0.005	379		<0.0002	0.00547	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	57
MW-84		03/31/2009	11	33.9		0.111	0.0162		<0.004	<0.01		<0.01	461		<0.0002	<0.01	<0.01		< 10	< 10	< 20	< 10	< 20	53
MW-84		09/21/2009	10	1.36		0.143	0.0173		<0.002	<0.005		<0.005	512		<0.0002	0.00769	<0.005		< 10	< 10	< 20	< 10	< 20	67
MW-87		04/06/2009	0.27	0.0518		0.0125	0.0199		<0.004	<0.01		<0.01	568		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-87		09/22/2009	0.25	0.0909		0.0153	0.021		<0.002	<0.005		<0.005	569		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-88		04/06/2009	0.4	0.298		0.014	<0.01		<0.004	<0.01		<0.01	176			<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-88	Dup #4	04/06/2009	0.45	0.301		0.0103	<0.01		<0.0012	<0.0012		<0.01	186			<0.005	<0.0014		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-88		09/23/2009	0.54	0.242		0.0123	0.00995		<0.002	<0.005		<0.005	174		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-88	Dup #4	09/23/2009	0.43	0.226		0.0118	0.0098		<0.002	<0.005		<0.005	147		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-89		04/02/2009	0.14			0.0197	0.0131		<0.004	<0.01		<0.01	146		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-89		09/17/2009	0.084			0.0101	0.0157		<0.002	<0.005		<0.005	129		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-90		04/15/2009	1.9	0.44		<0.01	0.0218		<0.004	<0.01		<0.01	266		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	9.9	< 10	< 10
MW-90		10/01/2009	3.2	0.244		0.00747	0.0156		<0.002	<0.005		<0.005	276		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-91		04/15/2009	2.1	15.3		<0.01	0.0934		<0.004	<0.01		<0.01	151		<0.0002	<0.01	<0.01		140	34	29	14	< 10	20
MW-91		10/01/2009	2.6	27.5		0.00551	0.04		<0.002	<0.005		<0.005	184		<0.0002	<0.005	<0.005		150	41	64	7.2	< 10	42

Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

			TPH		Metals													Volatile Organic Compounds					
		Units:	DRO mg/L	GRO mg/L	Aluminum mg/l	Arsenic mg/l	Barium mg/l	Boron mg/l	Cadmium mg/l	Chromium mg/l	Iron mg/l	Lead mg/l	Magnesium mg/l	Manganese mg/l	Mercury mg/l	Selenium mg/l	Silver mg/l	Zinc mg/l	1,2,4-Trimethyl benzene ug/l	1,3,5-Trimethyl benzene ug/l	2-Butanone (MEK) ug/l	2-Phenyl butane (sec-butylbenzene) ug/l	4-Methyl-2-Pentanone (MIBK) ug/l	Acetone ug/l
		CGWSL:	2.00E-01	--	5.00E+00	1.00E-02	2.00E+00	7.50E-01	5.00E-03	1.00E-01	1.00E+00	1.50E-02	--	2.00E-01	2.00E-03	5.00E-02	5.00E+01	1.00E+01	--	--	7.06E+03	--	1.99E+03	2.18E+04
		Source:	NMED TPH	--	WQCC Irr	EPA MCL	EPA MCL	WQCC Irr	EPA MCL	EPA MCL	WQCC Dom	EPA MCL	--	WQCC Dom	EPA MCL	EPA MCL	WQCC HH	WQCC HH	--	--	NMED TW	--	NMED TW	NMED TW
Location	Dup	Date																						
MW-92		04/15/2009	4.4	6.79		<0.01	0.313		<0.004	<0.01		<0.01	162		<0.0002	<0.01	<0.01		6.6	< 5.0	< 10	13	< 10	< 10
MW-92		10/01/2009	4.9	9.45		0.00679	2.07		<0.002	<0.005		<0.005	156		<0.0002	<0.005	<0.005		< 5.0	12	< 10	6.3	< 10	< 10
MW-93		04/15/2009	1.2	10.4		<0.01	0.123		<0.004	0.0413		0.0592	97.2		<0.0002	<0.01	<0.01		300	25	< 10	12	< 10	< 10
MW-93		10/01/2009	1.9	5.08		0.0057	0.044		<0.002	<0.005		<0.005	73.7		<0.0002	<0.005	<0.005		190	16	< 10	5.8	< 10	< 10
MW-95		04/15/2009	1.6	0.273		<0.01	0.0756		<0.004	<0.01		<0.01	144		<0.0001	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-95		10/01/2009	1.2	0.113		<0.005	0.0508		<0.002	<0.005		<0.005	139		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-96		04/15/2009	2.4	37.3		<0.01	0.146		<0.004	<0.01		<0.01	126		<0.0002	<0.01	<0.01		< 5.0	20	< 10	17	< 10	< 10
MW-96	Dup #8	04/15/2009	1.5	37.3		<0.01	0.152		<0.004	<0.0012		<0.01	126		<0.00004	<0.005	<0.0014		< 5.0	18	< 10	17	< 10	< 10
MW-96		10/01/2009	1.6	35.2		0.00568	0.102		<0.002	<0.005		<0.005	146		<0.0002	<0.005	<0.005		< 5.0	11	< 10	7.7	< 10	< 10
MW-96	Dup #9	10/01/2009	1.8	38		0.00596	0.0988		<0.002	<0.005		<0.005	147		<0.0002	<0.005	<0.005		< 5.0	11	< 10	8.4	< 10	< 10
MW-98		04/15/2009	2.5	22.9		<0.01	0.0104		<0.004	<0.01		<0.01	240		<0.0002	<0.01	<0.01		160	34	< 10	16	< 10	< 10
MW-98		09/28/2009	2.7	33.9		<0.005	0.0136		<0.002	<0.005		0.00946	347		<0.0002	<0.005	<0.005		320	95	< 10	9.8	< 10	20
MW-99		04/15/2009	0.7	2.04		0.0465	0.0811		<0.004	<0.01		<0.01	80		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-99		09/28/2009	0.59	29.2		0.0147	0.103		<0.002	<0.005		<0.005	111		<0.0002	<0.005	<0.005		82	12	< 10	< 5.0	< 10	< 10
MW-101		04/15/2009	0.83	24.4		0.0145	0.194		<0.004	<0.01		<0.01	98.5		<0.0002	<0.01	<0.01		42	7.1	< 10	7.5	< 10	< 10
MW-101		09/28/2009	0.81	0.736		0.0595	0.0651		<0.002	<0.005		<0.005	94.2		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
MW-103		03/16/2009	3.9	9.54	0.0678	<0.01	0.494	0.269	<0.002	<0.005	<0.2	<0.005	7.05	0.0191	<0.0002	<0.005	<0.005	0.0079	220	110	< 10	8	< 10	22
MW-103		09/28/2009	1.6	5.15		<0.005	0.561		<0.002	<0.005		<0.005	6.8		<0.0002	<0.005	<0.005		100	39	< 10	< 5.0	< 10	17
MW-104		03/16/2009	0.85	1.61	0.156	<0.005	0.028	0.0804	<0.002	<0.005	<0.2	<0.005	45.1	0.0177	<0.0002	<0.005	<0.005	<0.005	< 5.0	< 5.0	< 10	57	< 10	< 10
MW-104		09/28/2009	0.5	1.08		0.00597	0.04		<0.002	<0.005		<0.005	64.6		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	31	< 10	< 10
MW-106		09/28/2009	3.2	37.8		0.0112	0.0341		<0.002	<0.005		<0.005	257		<0.0002	<0.005	<0.005		290	36	12	9.2	14	15
MW-107		09/28/2009	2.8	44.3		0.00555	1.45		<0.002	<0.005		<0.005	150		<0.0002	<0.005	<0.005		320	89	< 10	9.6	< 10	21
MW-108		10/01/2009	8.2	2.55		0.0209	0.148		<0.002	0.0631	18.3	0.0548	212	0.875	<0.0002	<0.005	<0.005		75	11	< 10	8.4	< 10	17
NCL-32		04/10/2009	2.1			<0.01	0.143		<0.004	0.0442		0.0294	119		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
NCL-32		09/24/2009	0.21			0.0389	1.15		<0.002	0.383	555	0.267	166	1.64	0.000223	0.00667	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	14
NCL-33		04/10/2009	0.52			<0.01	0.0229		<0.004	<0.01		<0.01	157		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
NCL-33		09/24/2009	0.6			<0.005	0.024		<0.002	<0.005	3.7	<0.005	157	0.127	<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
NCL-34		04/10/2009	0.12			<0.01	0.608		<0.004	<0.01		<0.01	92.5		<0.0002	<0.01	<0.01		120	81	< 10	23	< 10	< 10
NCL-34		09/24/2009	1.7			<0.005	0.317		<0.002	<0.005	<0.2	<0.005	86.6	0.0337	<0.0002	<0.005	<0.005		96	< 5.0	< 10	13	< 10	< 10
NCL-44		04/10/2009	0.62			0.0436	0.0273		<0.004	<0.01		<0.01	108		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
NCL-44		09/24/2009	0.66			0.0598	0.0276		<0.002	<0.005	1.52	<0.005	119	0.756	<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
NCL-49		04/08/2009	<0.05			<0.01	0.0117		<0.004	<0.01		<0.01	186			<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
NCL-49	Dup #5	04/08/2009	<0.05			<0.01	0.0115		<0.004	<0.01		<0.01	193			<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
NCL-49		10/05/2009	<0.05			<0.005	0.0107		<0.002	<0.005		<0.005	198		<0.0002	0.00739	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
NP-1		04/08/2009																	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
NP-1		09/30/2009																	< 5.0	< 5.0	< 10	< 5.0	< 10	18
NP-2		04/08/2009																	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
NP-2		09/30/2009																	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
NP-3		04/03/2009	<0.05			0.01	0.0325		<0.004	<0.01		<0.01	282		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
NP-3		10/05/2009	<0.05			0.00753	0.0143		<0.002	<0.005		<0.005	203		<0.0002	0.0175	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
NP-3	Dup #10	10/05/2009	<0.05			0.00743	0.0152		<0.002	<0.005		<0.005	216		<0.0002	0.0161	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
NP-5		04/08/2009	<0.05			<0.01	<0.01		<0.004	<0.01		<0.01	572			0.0435	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
NP-5		10/05/2009	<0.05			<0.005	0.00617		<0.002	<0.005		<0.005	501		<0.0002	0.0347	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
NP-6		04/08/2009	<0.05			<0.01	0.0101		<0.004	<0.01		<0.01	393			0.0245	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
NP-6		10/05/2009	<0.05			0.00684	0.00995		<0.002	<0.005		<0.005	360		<0.0002	0.0255	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
NP-9		04/10/2009	<0.05			<0.01	0.0157		<0.004	<0.01		<0.01	359		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
NP-9		09/24/2009	<0.05			<0.005	0.0141		<0.002	<0.005		<0.005	356		<0.0002	0.00501	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
OCD-1R		09/21/2009	0.12	<0.05		0.0104	0.0194		<0.002	<0.005		<0.005	191		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
OCD-1R		04/01/2009	0.054	0.0552		<0.01	0.0193		<0.004	<0.01		<0.01	172		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10

Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

			TPH		Metals														Volatile Organic Compounds					
		Units:	DRO mg/L	GRO mg/L	Aluminum mg/l	Arsenic mg/l	Barium mg/l	Boron mg/l	Cadmium mg/l	Chromium mg/l	Iron mg/l	Lead mg/l	Magnesium mg/l	Manganese mg/l	Mercury mg/l	Selenium mg/l	Silver mg/l	Zinc mg/l	1,2,4-Trimethyl benzene ug/l	1,3,5-Trimethyl benzene ug/l	2-Butanone (MEK) ug/l	2-Phenyl butane (sec-butylbenzene) ug/l	4-Methyl-2-Pentanone (MIBK) ug/l	Acetone ug/l
		CGWSL:	2.00E-01	--	5.00E+00	1.00E-02	2.00E+00	7.50E-01	5.00E-03	1.00E-01	1.00E+00	1.50E-02	--	2.00E-01	2.00E-03	5.00E-02	5.00E+01	1.00E+01	--	--	7.06E+03	--	1.99E+03	2.18E+04
		Source:	NMED TPH	--	WQCC Irr	EPA MCL	EPA MCL	WQCC Irr	EPA MCL	EPA MCL	WQCC Dom	EPA MCL	--	WQCC Dom	EPA MCL	EPA MCL	WQCC HH	WQCC HH	--	--	NMED TW	--	NMED TW	NMED TW
Location	Dup	Date																						
OCD-2A		04/01/2009	<0.05	<0.02		<0.01	0.0251		<0.004	<0.01		<0.01	210		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
OCD-2A	Dup #2	04/01/2009	<0.05	<0.02		<0.01	0.0257		<0.004	<0.01		<0.01	234		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
OCD-2A		09/22/2009	<0.05	<0.05		<0.005	0.0266		<0.002	<0.005		<0.005	144		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
OCD-3		04/01/2009	<0.05	<0.02		<0.01	0.0223		<0.004	<0.01		<0.01	108		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
OCD-3		09/22/2009	<0.05	<0.05		<0.005	0.0214		<0.002	<0.005		<0.005	103		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
OCD-4		04/01/2009	<0.05	<0.02		<0.01	0.0231		<0.004	<0.01		<0.01	281		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
OCD-4		09/22/2009	<0.05	<0.05		<0.01	0.0222		<0.004	<0.01		<0.01	282		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
OCD-5		04/01/2009	0.22	0.263		0.0115	0.0238		<0.004	<0.01		<0.01	253		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
OCD-5		09/22/2009	0.21	0.319		<0.01	0.0215		<0.004	<0.01		<0.01	249		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
OCD-6		04/01/2009	0.83	0.527		0.0456	0.0168		<0.004	<0.01		<0.01	232		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
OCD-6		09/21/2009	0.89	0.486		0.0436	0.017		<0.002	<0.005		<0.005	217		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
OCD-7A		04/01/2009	1.7	1.35		0.318	0.0162		<0.004	<0.01		<0.01	185		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
OCD-7A		09/21/2009	1.7	1.15		0.262	0.0151		<0.002	<0.005		<0.005	208		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	14
OCD-7A	Dup #2	09/21/2009	1.5	1.14		0.236	0.0137		<0.004	<0.01		<0.01	176		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	11
OCD-8A		04/02/2009	0.93	1.07		0.105	0.014		<0.004	<0.01		<0.01	294		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
OCD-8A		09/22/2009	1.6	0.757		0.132	0.0165		<0.002	<0.005		<0.005	296		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
LarueWell		04/16/2009											148		<0.0002				< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
LarueWell		09/30/2009				<0.005	0.00819		<0.002	<0.005		<0.005	156		<0.0002	0.00875	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
RA-313		10/05/2009				<0.005	0.0201		<0.002	<0.005		<0.005	41.1			<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
RA-3156		04/16/2009											135		<0.0002				< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
RA-3156		09/30/2009				<0.005	0.00812		<0.002	<0.005		<0.005	138		<0.0002	0.00851	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
RA-4196		04/16/2009											131		<0.0002				< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
RA-4196		09/30/2009				<0.005	0.0138		<0.002	<0.005		<0.005	138		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
RA-4798		04/16/2009											81		<0.0002				< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
RA-4798		09/30/2009				<0.005	0.0109		<0.002	<0.005		<0.005	154		<0.0002	0.00815	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
RW-1		04/16/2009				<0.01	0.0517		<0.004	<0.01		<0.01	193		<0.0002	<0.01	<0.01		130	10	< 10	8.9	< 10	< 10
RW-1		10/01/2009				<0.005	0.0426		<0.002	<0.005		<0.005	168		<0.0002	<0.005	<0.005		590	150	< 10	39	< 10	< 10
RW-18		04/07/2009				<0.01	0.0108		<0.004	<0.01		<0.01	536			0.0115	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
RW-18		09/29/2009				0.00602	0.0109		<0.002	<0.005		<0.005	494		<0.0002	0.00894	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
TEL-1		04/16/2009	1.7	0.567		<0.01	0.0125		<0.004	<0.01		<0.01	93.9		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	13
TEL-1	Dup #9	04/16/2009	3.2	0.58		0.0107	0.0132		<0.004	<0.01		<0.01	88.7		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	13
TEL-1		09/25/2009	2.9	0.4		0.00662	0.0112		<0.002	<0.005		<0.005	123		<0.0002	<0.005	<0.005		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
TEL-2		04/16/2009	3.3	5.08		0.0112	0.0761		<0.004	<0.01		<0.01	196		<0.0002	<0.01	<0.01		150	22	< 10	8.4	< 10	21
TEL-2		09/25/2009	4.3	5.05		0.00979	0.0547		<0.002	<0.005		<0.005	194		<0.0002	<0.005	<0.005		160	22	< 10	7	< 10	< 10
TEL-3		04/16/2009	2.6	2.04		<0.01	0.0177		<0.004	<0.01		<0.01	149		<0.0002	<0.01	<0.01		48	12	< 10	13	< 10	< 10
TEL-3		09/25/2009	1.4	0.814		<0.005	0.014		<0.002	<0.005		<0.005	151		<0.0002	<0.005	<0.005		37	8.8	< 10	11	< 10	< 10
TEL-4		04/16/2009	1.8	2.61		0.012	0.0409		<0.004	0.0567		<0.01	185		<0.0002	<0.01	<0.01		< 5.0	55	< 10	16	< 10	< 10
TEL-4		09/25/2009	1.9	1.92		0.0129	0.0349		<0.002	0.0118		<0.005	208		<0.0002	<0.005	<0.005		91	36	< 10	13	< 10	< 10
UG-1		04/09/2009				<0.01	0.473		<0.004	0.0315		0.0404	224		<0.0002	0.0126	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
UG-1		10/02/2009											220						< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
UG-2		04/09/2009				<0.01	0.115		<0.004	<0.01		<0.01	97.1		<0.0002	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
UG-2		10/02/2009											112						< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
UG-3R		04/09/2009				<0.01	0.0613		<0.004	<0.01		<0.01	117		0.000309	<0.01	<0.01		< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
UG-3R		10/02/2009											148						< 5.0	< 5.0	< 10	< 5.0	< 10	< 10

Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

			Volatile Organic Compounds															Semivolatile Organic Compounds				
		Units:	Benzene ug/l	Chloroform ug/l	cis-1,2-Dichloro ethene ug/l	Cymene (4-isopropyl toluene) ug/l	Ethyl benzene ug/l	Isopropyl benzene ug/l	m,p-Xylene ug/l	Methyl-Tert-Butylether ug/l	Naphthalene ug/l	N-Butyl benzene ug/l	N-Propyl benzene ug/l	o-Xylene ug/l	Tetrachloro ethene ug/l	Toluene ug/l	Trichloro ethene ug/l	Xylenes ug/l	1,1-Biphenyl ug/l	2,4,5-Trichloro phenol ug/l	2,4-Dichloro phenol ug/l	2,4-Dimethyl phenol ug/l	2-Methyl naphthalene ug/l
		CGWSL:	5.00E+00	1.00E+02	7.00E+01	--	7.00E+02	6.79E+02	1.43E+03	1.25E+02	3.00E+01	--	--	1.43E+03	5.00E+00	7.50E+02	5.00E+00	6.20E+02	--	3.65E+03	1.10E+02	7.30E+02	--
		Source:	EPA MCL	WQCC HH	EPA MCL	--	EPA MCL	NMED TW	NMED TW	NMED TW	WQCC HH	--	--	NMED TW	EPA MCL	WQCC HH	EPA MCL	WQCC HH	--	NMED TW	NMED TW	NMED TW	--
Location	Dup	Date																					
KWB-1A		04/07/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
KWB-1A		09/29/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
KWB-1C		04/07/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
KWB-1C		09/29/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
KWB-3AR		04/09/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
KWB-3AR		09/29/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
KWB-7		04/07/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	59	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
KWB-7		10/05/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	42	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
KWB-9		04/08/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
KWB-9		09/29/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
KWB-10		04/07/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	6000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
KWB-11A		04/07/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	12	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
KWB-11A		10/05/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
KWB-12A		09/29/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
KWB-13		04/13/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
KWB-13	Dup #6	04/13/2010	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
KWB-13		09/29/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
KWB-P2		04/09/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-1R		04/02/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-1R		09/23/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-2A		04/01/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-2A		04/02/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	7.1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-2A		09/21/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-3		04/01/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-3		09/21/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-4A		04/06/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-4A		09/23/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	16					
MW-5A		09/22/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	6.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-5A	Dup #3	09/22/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	5.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-6A		04/01/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	5	< 5.0	< 5.0	< 5.0	< 15					
MW-6A		09/21/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	5.2	< 5.0	< 5.0	< 5.0	< 15					
MW-7A		04/02/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-7A		09/22/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-8		04/03/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-8		10/05/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	5.6	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-9		04/03/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-9		10/05/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	7.3	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-10		04/06/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-10		09/23/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-11A		04/02/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-11A		09/22/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-15		04/06/2009	9.1	< 5.0	< 5.0	< 5.0	14	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-15		09/23/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-16		04/02/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-16	Dup #3	04/02/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-16		09/17/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-17		04/09/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-17		09/28/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-17	Dup #7	09/29/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-18		04/13/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-18		09/24/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					

Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

			Volatile Organic Compounds																Semivolatile Organic Compounds				
		Units:	Benzene ug/l	Chloroform ug/l	cis-1,2-Dichloro ethene ug/l	Cymene (4-isopropyl toluene) ug/l	Ethyl benzene ug/l	Isopropyl benzene ug/l	m,p-Xylene ug/l	Methyl-Tert-Butylether ug/l	Naphthalene ug/l	N-Butyl benzene ug/l	N-Propyl benzene ug/l	o-Xylene ug/l	Tetrachloro ethene ug/l	Toluene ug/l	Trichloro ethene ug/l	Xylenes ug/l	1,1-Biphenyl ug/l	2,4,5-Trichloro phenol ug/l	2,4-Dichloro phenol ug/l	2,4-Dimethyl phenol ug/l	2-Methyl naphthalene ug/l
		CGWSL:	5.00E+00	1.00E+02	7.00E+01	--	7.00E+02	6.79E+02	1.43E+03	1.25E+02	3.00E+01	--	--	1.43E+03	5.00E+00	7.50E+02	5.00E+00	6.20E+02	--	3.65E+03	1.10E+02	7.30E+02	--
		Source:	EPA MCL	WQCC HH	EPA MCL	--	EPA MCL	NMED TW	NMED TW	NMED TW	WQCC HH	--	--	NMED TW	EPA MCL	WQCC HH	EPA MCL	WQCC HH	--	NMED TW	NMED TW	NMED TW	--
Location	Dup	Date																					
MW-18A		04/02/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-18A		09/22/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-20		04/03/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-20		10/05/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-21		04/03/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	12	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-21		10/05/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	8.3	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-22A		04/06/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	5.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-22A		09/23/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	7.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-23		04/14/2009	15000	< 5.0	< 5.0	15	1900	190	1600	27	370	50	330	< 120	< 5.0	600	< 5.0	1700					
MW-23		09/28/2009	7700	< 5.0	< 5.0	< 5.0	140	60	310	7	99	9.5	79	< 5.0	< 5.0	5.2	< 5.0	310					
MW-25		04/06/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-25		09/23/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-26		04/02/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-26		09/17/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-27		04/03/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-27		09/17/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-28		04/14/2009	340	< 5.0	< 5.0	6.7	22	63	130	7400	11	9.8	80	< 5.0	< 5.0	8.8	< 5.0	140					
MW-28		09/25/2009	180	< 5.0	< 5.0	< 5.0	10	40	47	7700	< 5.0	< 5.0	44	< 5.0	< 5.0	5.7	< 5.0	49					
MW-29		04/13/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-29		09/24/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-41		04/13/2009	23	< 5.0	< 5.0	< 5.0	< 5.0	9.5	< 10	60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-41		09/24/2009	35	< 5.0	< 5.0	< 5.0	< 5.0	5.5	< 10	24	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-42	Dup #7	04/13/2009	1700	< 5.0	< 5.0	< 5.0	26	88	450	24	41	9.4	110	< 120	< 0.60	5.6	< 5.0	450					
MW-42		04/13/2009	1600	< 5.0	< 5.0	< 5.0	27	92	420	28	40	9.2	110	< 120	< 0.60	5.7	< 5.0	420					
MW-42		09/24/2009	560	< 5.0	< 5.0	< 5.0	33	98	31	< 5.0	< 5.0	26	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	98					
MW-43		04/14/2009	4900	< 5.0	< 5.0	< 5.0	510	100	690	< 5.0	84	15	130	< 120	< 5.0	140	< 5.0	720					
MW-43		09/28/2009	810	< 5.0	< 5.0	< 5.0	24	55	200	8.7	< 5.0	5.6	60	25	< 5.0	50	< 5.0	220					
MW-45		04/06/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-45		09/24/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-49		04/14/2009	650	< 5.0	< 5.0	< 5.0	34	42	130	160	17	8	41	< 5.0	< 5.0	20	< 5.0	130					
MW-50		04/09/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-50		09/28/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-50	Dup #6	09/28/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-52		04/08/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-52		09/30/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-52	Dup #8	09/30/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-53		04/08/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-53		10/05/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-54A		04/08/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-54A		10/05/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-54A	Dup #11	10/05/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-55		04/10/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-55		09/24/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-56		04/10/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-56		09/24/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-56	Dup #5	09/24/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-58		04/08/2009	730	< 5.0	< 5.0	< 5.0	37	< 5.0	41	220	16	< 5.0	6.2	< 5.0	< 5.0	< 5.0	< 5.0	45					
MW-58		09/30/2009	1800	< 5.0	< 5.0	< 5.0	120	17	62	190	17	< 5.0	25	23	< 5.0	< 5.0	< 5.0	85					
MW-61		04/09/2009	3600	< 5.0	< 5.0	< 5.0	79	140	820	< 5.0	170	17	160	< 120	< 5.0	210	< 5.0	820					
MW-61		10/01/2009	2400	6	< 5.0	< 5.0	46	73	460	< 5.0	130	7.6	80	< 120	< 5.0	150	< 5.0	460					

Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

			Volatile Organic Compounds															Semivolatile Organic Compounds				
		Benzene	Chloroform	cis-1,2-Dichloro ethene	Cymene (4-isopropyl toluene)	Ethyl benzene	Isopropyl benzene	m,p-Xylene	Methyl-Tert-Butylether	Naphthalene	N-Butyl benzene	N-Propyl benzene	o-Xylene	Tetrachloro ethene	Toluene	Trichloro ethene	Xylenes	1,1-Biphenyl	2,4,5-Trichloro phenol	2,4-Dichloro phenol	2,4-Dimethyl phenol	2-Methyl naphthalene
Units:		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
CGWSL:		5.00E+00	1.00E+02	7.00E+01	--	7.00E+02	6.79E+02	1.43E+03	1.25E+02	3.00E+01	--	--	1.43E+03	5.00E+00	7.50E+02	5.00E+00	6.20E+02	--	3.65E+03	1.10E+02	7.30E+02	--
Source:		EPA MCL	WQCC HH	EPA MCL	--	EPA MCL	NMED TW	NMED TW	NMED TW	WQCC HH	--	--	NMED TW	EPA MCL	WQCC HH	EPA MCL	WQCC HH	--	NMED TW	NMED TW	NMED TW	--
Location	Dup	Date																				
MW-62		04/14/2009	*3500*	< 5.0	< 5.0	6.3	44	160	320	17	*65*	17	220	< 5.0	< 5.0	< 5.0	< 5.0	320					
MW-62		10/01/2009	*2900*	< 5.0	< 5.0	< 5.0	32	64	240	19	*32*	< 5.0	100	< 5.0	< 5.0	< 5.0	< 5.0	240					
MW-66		04/14/2009	*2100*	< 5.0	< 5.0	< 5.0	60	69	20	*5400*	*78*	14	100	< 5.0	< 5.0	< 5.0	< 5.0	21					
MW-66		09/25/2009	*3300*	< 5.0	< 5.0	< 5.0	37	38	16	*5500*	*47*	< 5.0	44	< 5.0	< 5.0	< 5.0	< 5.0	18					
MW-67		04/14/2009	*78*	< 5.0	< 5.0	< 5.0	< 5.0	32	< 10	*150*	< 5.0	< 5.0	11	< 5.0	< 5.0	< 5.0	*17*	< 15					
MW-67		10/01/2009	*45*	< 5.0	< 5.0	< 5.0	< 5.0	8.1	< 10	110	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5	< 15					
MW-68		04/03/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-68		09/29/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-70		04/02/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-70		09/22/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-72		03/30/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-72		09/18/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-73		03/30/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	5.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-73		09/18/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-74		03/30/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-74		09/18/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-75		03/30/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	5.8	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-75	Dup #1	09/18/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-75		09/18/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	9.3	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-76		03/31/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	5.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-76		09/17/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-77		03/31/2009	*12*	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	12	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-77		09/17/2009	*32*	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	10	< 5.0	< 5.0	11	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-78		03/31/2009	*6.7*	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-78		09/17/2009	*13*	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-79		03/31/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-79	Dup #1	03/31/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-79		09/18/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-80		03/31/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-80		09/18/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-81		03/31/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-81		09/18/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-82		03/31/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-82		09/21/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-83		03/31/2009	*5.5*	< 5.0	< 5.0	< 5.0	6.3	< 5.0	40	< 5.0	< 5.0	< 5.0	15	< 5.0	< 5.0	< 5.0	< 5.0	44					
MW-83		09/21/2009	*5.3*	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	6.7	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-84		03/31/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 30					
MW-84		09/21/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 20	12	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 30					
MW-87		04/06/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-87		09/22/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-88		04/06/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-88	Dup #4	04/06/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-88		09/23/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-88	Dup #4	09/23/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-89		04/02/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-89		09/17/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
MW-90		04/15/2009	*20*	< 5.0	< 5.0	< 5.0	< 5.0	55	< 10	< 5.0	< 5.0	< 5.0	15	< 5.0	< 5.0	< 5.0	< 5.0	< 15	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-90		10/01/2009	*14*	< 5.0	< 5.0	< 5.0	< 5.0	32	< 10	< 5.0	< 5.0	< 5.0	9.1	< 5.0	< 5.0	< 5.0	< 5.0	< 15	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-91		04/15/2009	*1900*	< 5.0	< 5.0	< 5.0	*1100*	120	940	< 5.0	*43*	11	120	190	< 5.0	*2200*	< 5.0	*1100*	1.4	< 0.20	< 0.20	1.4	3.8
MW-91		10/01/2009	*3900*	< 5.0	< 5.0	< 5.0	*1500*	110	1400	< 5.0	*57*	6.5	89	380	< 5.0	*4800*	< 5.0	*1800*	1.6	< 0.20	< 0.20	1.7	6.5

Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

			Volatile Organic Compounds																Semivolatile Organic Compounds				
			Benzene	Chloroform	cis-1,2-Dichloro ethene	Cymene (4-isopropyl toluene)	Ethyl benzene	Isopropyl benzene	m,p-Xylene	Methyl-Tert-Butylether	Naphthalene	N-Butyl benzene	N-Propyl benzene	o-Xylene	Tetrachloro ethene	Toluene	Trichloro ethene	Xylenes	1,1-Biphenyl	2,4,5-Trichloro phenol	2,4-Dichloro phenol	2,4-Dimethyl phenol	2-Methyl naphthalene
		Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
		CGWSL:	5.00E+00	1.00E+02	7.00E+01	--	7.00E+02	6.79E+02	1.43E+03	1.25E+02	3.00E+01	--	--	1.43E+03	5.00E+00	7.50E+02	5.00E+00	6.20E+02	--	3.65E+03	1.10E+02	7.30E+02	--
		Source:	EPA MCL	WQCC HH	EPA MCL	--	EPA MCL	NMED TW	NMED TW	NMED TW	WQCC HH	--	--	NMED TW	EPA MCL	WQCC HH	EPA MCL	WQCC HH	--	NMED TW	NMED TW	NMED TW	--
Location	Dup	Date																					
MW-92		04/15/2009	1800	< 5.0	28	< 5.0	220	68	50	68	190	14	82	6.2	7.9	16	20	57	0.23	< 0.20	< 0.20	1.9	0.45
MW-92		10/01/2009	3600	< 5.0	94	< 5.0	260	44	35	260	110	6.9	51	5.3	< 5.0	18	< 5.0	40	0.31	< 0.20	< 0.20	12	0.35
MW-93		04/15/2009	2700	< 5.0	< 5.0	6.7	40	96	790	< 5.0	110	12	130	< 120	< 5.0	12	< 5.0	790	4.6	< 0.20	< 0.20	1.2	2
MW-93		10/01/2009	1300	< 5.0	< 5.0	< 5.0	13	49	380	< 5.0	64	5.6	63	< 120	< 5.0	5.3	< 5.0	380	3.6	< 0.20	< 0.20	0.68	2.9
MW-95		04/15/2009	23	< 5.0	< 5.0	< 5.0	< 5.0	16	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-95		10/01/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	11	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-96		04/15/2009	6.8	< 5.0	< 5.0	< 5.0	6.1	140	21	63000	< 5.0	11	120	< 5.0	< 5.0	< 5.0	< 5.0	24	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-96	Dup #8	04/15/2009	8.3	< 5.0	< 5.0	< 5.0	5.9	120	19	64000	< 5.0	11	120	< 5.0	< 5.0	< 5.0	< 5.0	22	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-96		10/01/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	77	12	53000	< 5.0	< 5.0	67	< 5.0	< 5.0	< 5.0	< 5.0	< 15	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-96	Dup #9	10/01/2009	5.1	< 5.0	< 5.0	< 5.0	< 5.0	78	12	53000	< 5.0	5.5	73	< 5.0	< 5.0	< 5.0	< 5.0	< 15	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-98		04/15/2009	7100	< 5.0	< 5.0	< 5.0	590	120	670	< 5.0	93	18	140	< 120	< 5.0	180	< 5.0	700	3.6	< 0.20	< 0.20	< 0.20	9.1
MW-98		09/28/2009	7700	< 5.0	< 5.0	< 5.0	1200	98	1200	< 5.0	170	17	110	< 250	< 5.0	210	< 5.0	1300	1.7	< 0.20	< 0.20	< 0.20	7.2
MW-99		04/15/2009	550	< 5.0	< 5.0	< 5.0	41	8.6	13	97	< 5.0	< 5.0	8.6	13	< 5.0	< 5.0	< 5.0	26	0.41	< 0.20	< 0.20	< 0.20	0.83
MW-99		09/28/2009	9200	< 5.0	< 5.0	< 5.0	380	36	440	5900	27	< 5.0	40	170	< 5.0	750	< 5.0	610	< 0.20	< 0.20	< 0.20	0.79	0.41
MW-101		04/15/2009	4700	< 5.0	< 5.0	< 5.0	150	62	200	2600	14	6.4	73	87	< 5.0	220	< 5.0	280	0.48	< 0.20	< 0.20	8.5	1.7
MW-101		09/28/2009	180	< 5.0	< 5.0	< 5.0	8.5	< 5.0	< 10	100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-103		03/16/2009	1000	< 5.0	< 5.0	< 5.0	610	52	320	< 5.0	190	11	69	89	< 5.0	120	< 5.0	410	5.1	0.9	1.8	7.9	70
MW-103		09/28/2009	860	< 5.0	< 5.0	< 5.0	350	20	140	< 5.0	90	< 5.0	25	34	< 5.0	22	< 5.0	170	1.7	< 0.20	< 0.20	3	17
MW-104		03/16/2009	34	61	< 5.0	< 5.0	< 5.0	110	< 10	< 5.0	< 5.0	< 5.0	25	< 5.0	< 5.0	< 5.0	< 5.0	< 15	4.7	< 0.20	< 0.20	< 0.20	< 0.20
MW-104		09/28/2009	190	26	< 5.0	< 5.0	10	83	< 10	< 5.0	< 5.0	< 5.0	25	< 5.0	< 5.0	< 5.0	< 5.0	< 15	1.5	< 0.20	< 0.20	< 0.20	< 0.20
MW-106		09/28/2009	15000	< 5.0	< 5.0	< 5.0	1100	92	560	39	180	15	100	< 250	< 5.0	260	< 5.0	560	1.6	< 0.20	< 0.20	5.9	22
MW-107		09/28/2009	14000	< 5.0	< 5.0	< 5.0	1400	84	570	7400	190	17	97	< 250	< 5.0	36	< 5.0	570	3.9	< 0.20	< 0.20	5.6	57
MW-108		10/01/2009	480	< 5.0	< 5.0	< 5.0	96	38	110	< 5.0	98	9.4	36	< 5.0	< 5.0	.11	< 5.0	110	4.3	< 0.20	< 0.20	1.4	13
NCL-32		04/10/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
NCL-32		09/24/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
NCL-33		04/10/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
NCL-33		09/24/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
NCL-34		04/10/2009	2500	< 5.0	< 5.0	< 5.0	170	160	260	< 5.0	25	10	140	< 5.0	< 5.0	< 5.0	< 5.0	260					
NCL-34		09/24/2009	1800	< 5.0	< 5.0	< 5.0	11	110	220	< 5.0	7.1	6.2	91	< 5.0	< 5.0	< 5.0	< 5.0	220					
NCL-44		04/10/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
NCL-44		09/24/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
NCL-49		04/08/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
NCL-49	Dup #5	04/08/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
NCL-49		10/05/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
NP-1		04/08/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	150	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
NP-1		09/30/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
NP-2		04/08/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
NP-2		09/30/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
NP-3		04/03/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
NP-3		10/05/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
NP-3	Dup #10	10/05/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
NP-5		04/08/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
NP-5		10/05/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
NP-6		04/08/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
NP-6		10/05/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
NP-9		04/10/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
NP-9		09/24/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
OCD-1R		09/21/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
OCD-1R		04/01/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					

Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

			Volatile Organic Compounds																Semivolatile Organic Compounds				
			Benzene	Chloroform	cis-1,2-Dichloroethene	Cymene (4-isopropyl toluene)	Ethyl benzene	Isopropyl benzene	m,p-Xylene	Methyl-Tert-Butylether	Naphthalene	N-Butyl benzene	N-Propyl benzene	o-Xylene	Tetrachloroethene	Toluene	Trichloroethene	Xylenes	1,1-Biphenyl	2,4,5-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2-Methylnaphthalene
		Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
		CGWSL:	5.00E+00	1.00E+02	7.00E+01	--	7.00E+02	6.79E+02	1.43E+03	1.25E+02	3.00E+01	--	--	1.43E+03	5.00E+00	7.50E+02	5.00E+00	6.20E+02	--	3.65E+03	1.10E+02	7.30E+02	--
		Source:	EPA MCL	WQCC HH	EPA MCL	--	EPA MCL	NMED TW	NMED TW	NMED TW	WQCC HH	--	--	NMED TW	EPA MCL	WQCC HH	EPA MCL	WQCC HH	--	NMED TW	NMED TW	NMED TW	--
Location	Dup	Date																					
OCD-2A		04/01/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
OCD-2A	Dup #2	04/01/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
OCD-2A		09/22/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
OCD-3		04/01/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
OCD-3		09/22/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
OCD-4		04/01/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
OCD-4		09/22/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
OCD-5		04/01/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
OCD-5		09/22/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
OCD-6		04/01/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
OCD-6		09/21/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
OCD-7A		04/01/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
OCD-7A		09/21/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
OCD-7A	Dup #2	09/21/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
OCD-8A		04/02/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
OCD-8A		09/22/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	8.4	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
LarueWell		04/16/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
LarueWell		09/30/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
RA-313		10/05/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
RA-3156		04/16/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
RA-3156		09/30/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
RA-4196		04/16/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
RA-4196		09/30/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	5.4	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
RA-4798		04/16/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
RA-4798		09/30/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	18	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
RW-1		04/16/2009	*990*	< 5.0	*110*	< 5.0	110	29	150	39	28	10	32	23	*42*	21	*760*	170					
RW-1		10/01/2009	*1900*	< 5.0	*360*	24	430	82	390	46	*340*	54	110	280	*140*	310	*660*	*670*					
RW-18		04/07/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
RW-18		09/29/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
TEL-1		04/16/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	13	< 10	7	< 5.0	< 5.0	< 5.0	6.5	< 5.0	< 5.0	< 5.0	< 15					
TEL-1	Dup #9	04/16/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	13	< 10	7.2	< 5.0	< 5.0	< 5.0	6.2	< 5.0	< 5.0	< 5.0	< 15					
TEL-1		09/25/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	6.9	< 10	7.3	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
TEL-2		04/16/2009	*1200*	< 5.0	< 5.0	< 5.0	12	60	190	17	27	9.2	63	12	< 5.0	43	< 0.50	200					
TEL-2		09/25/2009	*1100*	< 5.0	< 5.0	< 5.0	9.4	57	220	17	28	7.1	56	13	< 5.0	56	< 5.0	240					
TEL-3		04/16/2009	*540*	< 5.0	< 5.0	< 5.0	< 5.0	76	27	41	< 5.0	< 5.0	17	< 5.0	< 5.0	6	< 5.0	30					
TEL-3		09/25/2009	*44*	< 5.0	< 5.0	< 5.0	< 5.0	78	13	< 5.0	< 5.0	< 5.0	12	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
TEL-4		04/16/2009	*38*	< 5.0	< 5.0	< 5.0	24	47	41	*210*	< 5.0	8.9	69	< 5.0	< 5.0	< 5.0	< 5.0	42					
TEL-4		09/25/2009	*12*	< 5.0	< 5.0	< 5.0	13	39	27	*200*	< 5.0	7.6	54	< 5.0	< 5.0	< 5.0	< 5.0	28					
UG-1		04/09/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
UG-1		10/02/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
UG-2		04/09/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
UG-2		10/02/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
UG-3R		04/09/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					
UG-3R		10/02/2009	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 15					

Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

			Semivolatile Organic Compounds																	
			2-Methyl phenol	4-Methyl phenol	Acenaph thene	Acenaph-thylene	Aceto phenone	Anthracene	Bis(2-Ethylhexyl) phthalate	Carbazole	Dibenzo furan	Diethyl Phthalate	Di-N-Butyl Phthalate	Di-n-Octyl Phthalate	Fluor anthene	Fluorene	Naphthalene	Phenan threne	Phenol	Pyrene
		Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
		CGWSL:	--	--	2.19E+03	--	--	1.10E+04	6.00E+00	--	--	2.92E+04	3.65E+03	--	1.46E+03	1.46E+03	3.00E+01	1.10E+03	5.00E+00	1.10E+03
		Source:	--	--	NMED TW	--	--	NMED TW	EPA MCL	--	--	NMED TW	NMED TW	--	NMED TW	NMED TW	WQCC HH	NMED TW	WQCC Dom	NMED TW
Location	Dup	Date																		
KWB-1A		04/07/2009																		
KWB-1A		09/29/2009																		
KWB-1C		04/07/2009																		
KWB-1C		09/29/2009																		
KWB-3AR		04/09/2009																		
KWB-3AR		09/29/2009																		
KWB-7		04/07/2009																		
KWB-7		10/05/2009																		
KWB-9		04/08/2009																		
KWB-9		09/29/2009																		
KWB-10		04/07/2009																		
KWB-11A		04/07/2009																		
KWB-11A		10/05/2009																		
KWB-12A		09/29/2009																		
KWB-13		04/13/2009																		
KWB-13	Dup #6	04/13/2010																		
KWB-13		09/29/2009																		
KWB-P2		04/09/2009																		
MW-1R		04/02/2009																		
MW-1R		09/23/2009																		
MW-2A		04/01/2009																		
MW-2A		04/02/2009																		
MW-2A		09/21/2009																		
MW-3		04/01/2009																		
MW-3		09/21/2009																		
MW-4A		04/06/2009																		
MW-4A		09/23/2009																		
MW-5A		09/22/2009																		
MW-5A	Dup #3	09/22/2009																		
MW-6A		04/01/2009																		
MW-6A		09/21/2009																		
MW-7A		04/02/2009																		
MW-7A		09/22/2009																		
MW-8		04/03/2009																		
MW-8		10/05/2009																		
MW-9		04/03/2009																		
MW-9		10/05/2009																		
MW-10		04/06/2009																		
MW-10		09/23/2009																		
MW-11A		04/02/2009																		
MW-11A		09/22/2009																		
MW-15		04/06/2009																		
MW-15		09/23/2009																		
MW-16		04/02/2009																		
MW-16	Dup #3	04/02/2009																		
MW-16		09/17/2009																		
MW-17		04/09/2009																		
MW-17		09/28/2009																		
MW-17	Dup #7	09/29/2009																		
MW-18		04/13/2009																		
MW-18		09/24/2009																		

Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

			Semivolatile Organic Compounds																	
			2-Methyl phenol	4-Methyl phenol	Acenaph thene	Acenaph-thylene	Aceto phenone	Anthracene	Bis(2-Ethylhexyl) phthalate	Carbazole	Dibenzo furan	Diethyl Phthalate	Di-N-Butyl Phthalate	Di-n-Octyl Phthalate	Fluor anthene	Fluorene	Naphthalene	Phenan threne	Phenol	Pyrene
		Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
		CGWSL:	--	--	2.19E+03	--	--	1.10E+04	6.00E+00	--	--	2.92E+04	3.65E+03	--	1.46E+03	1.46E+03	3.00E+01	1.10E+03	5.00E+00	1.10E+03
		Source:	--	--	NMED TW	--	--	NMED TW	EPA MCL	--	--	NMED TW	NMED TW	--	NMED TW	NMED TW	WQCC HH	NMED TW	WQCC Dom	NMED TW
Location	Dup	Date																		
MW-18A		04/02/2009																		
MW-18A		09/22/2009																		
MW-20		04/03/2009																		
MW-20		10/05/2009																		
MW-21		04/03/2009																		
MW-21		10/05/2009																		
MW-22A		04/06/2009																		
MW-22A		09/23/2009																		
MW-23		04/14/2009																		
MW-23		09/28/2009																		
MW-25		04/06/2009																		
MW-25		09/23/2009																		
MW-26		04/02/2009																		
MW-26		09/17/2009																		
MW-27		04/03/2009																		
MW-27		09/17/2009																		
MW-28		04/14/2009																		
MW-28		09/25/2009																		
MW-29		04/13/2009																		
MW-29		09/24/2009																		
MW-41		04/13/2009																		
MW-41		09/24/2009																		
MW-42	Dup #7	04/13/2009																		
MW-42		04/13/2009																		
MW-42		09/24/2009																		
MW-43		04/14/2009																		
MW-43		09/28/2009																		
MW-45		04/06/2009																		
MW-45		09/24/2009																		
MW-49		04/14/2009																		
MW-50		04/09/2009																		
MW-50		09/28/2009																		
MW-50	Dup #6	09/28/2009																		
MW-52		04/08/2009																		
MW-52		09/30/2009																		
MW-52	Dup #8	09/30/2009																		
MW-53		04/08/2009																		
MW-53		10/05/2009																		
MW-54A		04/08/2009																		
MW-54A		10/05/2009																		
MW-54A	Dup #11	10/05/2009																		
MW-55		04/10/2009																		
MW-55		09/24/2009																		
MW-56		04/10/2009																		
MW-56		09/24/2009																		
MW-56	Dup #5	09/24/2009																		
MW-58		04/08/2009																		
MW-58		09/30/2009																		
MW-61		04/09/2009																		
MW-61		10/01/2009																		

Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

			Semivolatile Organic Compounds																	
			2-Methyl phenol	4-Methyl phenol	Acenaph thene	Acenaph-thylene	Aceto phenone	Anthracene	Bis(2-Ethylhexyl) phthalate	Carbazole	Dibenzo furan	Diethyl Phthalate	Di-N-Butyl Phthalate	Di-n-Octyl Phthalate	Fluor anthene	Fluorene	Naphthalene	Phenan threne	Phenol	Pyrene
		Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
		CGWSL:	--	--	2.19E+03	--	--	1.10E+04	6.00E+00	--	--	2.92E+04	3.65E+03	--	1.46E+03	1.46E+03	3.00E+01	1.10E+03	5.00E+00	1.10E+03
		Source:	--	--	NMED TW	--	--	NMED TW	EPA MCL	--	--	NMED TW	NMED TW	--	NMED TW	NMED TW	WQCC HH	NMED TW	WQCC Dom	NMED TW
Location	Dup	Date																		
MW-62		04/14/2009																		
MW-62		10/01/2009																		
MW-66		04/14/2009																		
MW-66		09/25/2009																		
MW-67		04/14/2009																		
MW-67		10/01/2009																		
MW-68		04/03/2009																		
MW-68		09/29/2009																		
MW-70		04/02/2009																		
MW-70		09/22/2009																		
MW-72		03/30/2009																		
MW-72		09/18/2009																		
MW-73		03/30/2009																		
MW-73		09/18/2009																		
MW-74		03/30/2009																		
MW-74		09/18/2009																		
MW-75		03/30/2009																		
MW-75	Dup #1	09/18/2009																		
MW-75		09/18/2009																		
MW-76		03/31/2009																		
MW-76		09/17/2009																		
MW-77		03/31/2009																		
MW-77		09/17/2009																		
MW-78		03/31/2009																		
MW-78		09/17/2009																		
MW-79		03/31/2009																		
MW-79	Dup #1	03/31/2009																		
MW-79		09/18/2009																		
MW-80		03/31/2009																		
MW-80		09/18/2009																		
MW-81		03/31/2009																		
MW-81		09/18/2009																		
MW-82		03/31/2009																		
MW-82		09/21/2009																		
MW-83		03/31/2009																		
MW-83		09/21/2009																		
MW-84		03/31/2009																		
MW-84		09/21/2009																		
MW-87		04/06/2009																		
MW-87		09/22/2009																		
MW-88		04/06/2009																		
MW-88	Dup #4	04/06/2009																		
MW-88		09/23/2009																		
MW-88	Dup #4	09/23/2009																		
MW-89		04/02/2009																		
MW-89		09/17/2009																		
MW-90		04/15/2009	< 0.20	< 0.20	0.38	< 0.20	< 0.20	< 0.20	0.5	0.51	4.4	< 0.20	< 0.20	< 0.20	< 0.20	0.56	0.66	< 0.20	< 0.20	< 0.20
MW-90		10/01/2009	< 0.20	< 0.20	0.25	< 0.20	< 0.20	< 0.20	0.44	< 0.20	1.7	0.36	< 0.20	< 0.20	< 0.20	0.24	0.58	< 0.20	< 0.20	< 0.20
MW-91		04/15/2009	< 0.20	< 0.20	0.34	< 0.20	< 0.10	< 0.20	2.1	2.1	2.9	< 0.20	< 0.20	< 0.20	< 0.20	2.2	18	1.7	< 0.20	< 0.20
MW-91		10/01/2009	0.47	5.2	0.36	< 0.20	8.4	< 0.20	2.7	2.8	2.1	< 0.20	< 0.20	0.67	< 0.20	1.7	22	1.6	0.71	< 0.20

Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

			Semivolatile Organic Compounds																	
			2-Methyl phenol	4-Methyl phenol	Acenaph thene	Acenaph-thylene	Aceto phenone	Anthracene	Bis(2-Ethylhexyl) phthalate	Carbazole	Dibenzo furan	Diethyl Phthalate	Di-N-Butyl Phthalate	Di-n-Octyl Phthalate	Fluor anthene	Fluorene	Naphthalene	Phenan threne	Phenol	Pyrene
		Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
		CGWSL:	--	--	2.19E+03	--	--	1.10E+04	6.00E+00	--	--	2.92E+04	3.65E+03	--	1.46E+03	1.46E+03	3.00E+01	1.10E+03	5.00E+00	1.10E+03
		Source:	--	--	NMED TW	--	--	NMED TW	EPA MCL	--	--	NMED TW	NMED TW	--	NMED TW	NMED TW	WQCC HH	NMED TW	WQCC Dom	NMED TW
Location	Dup	Date																		
MW-92		04/15/2009	< 0.20	< 0.20	4.7	0.63	< 0.20	1.1	3.8	12	9.9	< 0.20	< 0.20	< 0.20	0.51	24	32	6.4	1.4	0.4
MW-92		10/01/2009	2.1	< 0.20	2.1	< 0.20	< 0.20	0.39	< 0.20	12	4.5	< 0.20	< 0.20	< 0.20	< 0.20	5.3	35	4.4	< 0.20	< 0.20
MW-93		04/15/2009	< 0.20	0.21	1.6	< 0.20	< 0.20	1.1	14	15	4.4	< 0.20	< 0.20	< 0.20	0.46	7	37	14	0.93	0.47
MW-93		10/01/2009	< 0.20	< 0.20	1.4	< 0.20	< 0.20	0.8	9.8	10	3.8	< 0.20	< 0.20	< 0.20	0.28	6.1	26	11	0.59	0.53
MW-95		04/15/2009	< 0.20	< 0.20	0.64	< 0.20	< 0.20	< 0.20	0.61	0.25	3.1	< 0.20	< 0.20	< 0.20	< 0.20	1.5	< 0.20	< 0.20	< 0.20	0.25
MW-95		10/01/2009	< 0.20	< 0.20	0.31	< 0.20	< 0.20	< 0.20	15	< 0.20	1.4	< 0.20	< 0.20	< 0.20	< 0.20	0.74	< 0.20	< 0.20	< 0.20	< 0.20
MW-96		04/15/2009	< 0.20	< 0.20	1.4	0.73	< 0.20	< 0.20	0.65	1.7	7.2	1.1	< 0.20	< 0.20	< 0.20	3.3	2.2	0.34	< 0.20	< 0.20
MW-96	Dup #8	04/15/2009	< 0.20	< 0.20	1.4	< 0.070	0.7	< 0.20	1.1	2.1	6.7	< 0.070	< 0.070	< 0.11	< 0.070	3.1	2.3	0.52	< 0.070	< 0.070
MW-96		10/01/2009	< 0.20	< 0.20	0.57	< 0.20	< 0.20	< 0.20	0.53	1.3	2.5	< 0.20	< 0.20	< 0.20	< 0.20	1.2	0.38	< 0.20	0.26	< 0.20
MW-96	Dup #9	10/01/2009	< 0.20	< 0.20	0.64	< 0.20	< 0.20	< 0.20	1.4	1.3	3	< 0.20	< 0.20	< 0.20	< 0.20	1.5	0.49	< 0.20	0.3	< 0.20
MW-98		04/15/2009	< 0.20	< 0.20	0.57	< 0.20	< 0.20	< 0.20	0.65	2.1	3.2	< 0.20	< 0.20	< 0.20	< 0.20	1.7	66	0.66	2.2	< 0.20
MW-98		09/28/2009	< 0.20	0.4	< 0.20	< 0.20	< 0.20	< 0.20	0.43	1	1.1	< 0.20	< 0.20	< 0.20	< 0.20	0.72	45	0.57	< 0.20	< 0.20
MW-99		04/15/2009	< 0.20	< 0.20	0.27	< 0.20	< 0.20	< 0.20	0.99	0.29	1	< 0.20	< 0.20	< 0.20	< 0.20	0.45	5	< 0.20	1.7	< 0.20
MW-99		09/28/2009	0.8	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	14	0.27	0.31	< 0.20	< 0.20	< 0.20	< 0.20	0.2	5.8	< 0.20	0.6	< 0.20
MW-101		04/15/2009	9.3	0.92	0.56	< 0.20	< 0.20	< 0.20	6.7	0.6	1.6	< 0.20	< 0.20	< 0.20	< 0.20	0.96	9.4	0.25	1.6	< 0.20
MW-101		09/28/2009	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	1.2	< 0.20	0.29	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.44	< 0.20	0.35	< 0.20
MW-103		03/16/2009	4.1	< 0.20	1.6	< 0.20	< 0.20	0.27	86	1.3	3.5	3	1.1	< 0.20	< 0.20	1.6	130	2.1	2.7	< 0.070
MW-103		09/28/2009	1	< 0.20	0.73	< 0.20	< 0.20	< 0.20	62	0.52	1.2	< 0.20	< 0.20	< 0.20	< 0.20	0.62	49	0.83	2	< 0.20
MW-104		03/16/2009	< 0.20	< 0.20	< 0.20	< 0.20	< 0.10	< 0.20	2.9	< 0.20	1.8	0.23	0.52	< 0.20	< 0.20	0.64	< 0.20	< 0.20	< 0.20	< 0.20
MW-104		09/28/2009	< 0.20	< 0.20	< 0.20	< 0.20	0.57	< 0.20	1.4	< 0.20	0.66	< 0.20	< 0.20	< 0.20	< 0.20	0.25	< 0.20	< 0.20	0.67	< 0.20
MW-106		09/28/2009	1.4	0.99	0.21	< 0.20	8.2	< 0.20	1	0.8	0.99	< 0.20	< 0.20	< 0.20	< 0.20	0.61	57	0.48	5.8	< 0.20
MW-107		09/28/2009	0.77	0.78	1.2	< 0.20	< 0.20	< 0.20	0.36	2	2.9	< 0.20	< 0.20	< 0.20	< 0.20	1.9	91	1.5	7.9	< 0.20
MW-108		10/01/2009	0.47	0.96	2.8	< 0.20	< 0.20	0.44	2.8	< 0.20	5.8	< 0.20	< 0.20	< 0.20	< 0.20	4.8	29	4.8	1.6	0.53
NCL-32		04/10/2009																		
NCL-32		09/24/2009																		
NCL-33		04/10/2009																		
NCL-33		09/24/2009																		
NCL-34		04/10/2009																		
NCL-34		09/24/2009																		
NCL-44		04/10/2009																		
NCL-44		09/24/2009																		
NCL-49		04/08/2009																		
NCL-49	Dup #5	04/08/2009																		
NCL-49		10/05/2009																		
NP-1		04/08/2009																		
NP-1		09/30/2009																		
NP-2		04/08/2009																		
NP-2		09/30/2009																		
NP-3		04/03/2009																		
NP-3		10/05/2009																		
NP-3	Dup #10	10/05/2009																		
NP-5		04/08/2009																		
NP-5		10/05/2009																		
NP-6		04/08/2009																		
NP-6		10/05/2009																		
NP-9		04/10/2009																		
NP-9		09/24/2009																		
OCD-1R		09/21/2009																		
OCD-1R		04/01/2009																		

Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

			Semivolatile Organic Compounds																	
			2-Methyl phenol	4-Methyl phenol	Acenaph thene	Acenaph-thylene	Aceto phenone	Anthracene	Bis(2-Ethylhexyl) phthalate	Carbazole	Dibenzo furan	Diethyl Phthalate	Di-N-Butyl Phthalate	Di-n-Octyl Phthalate	Fluor anthene	Fluorene	Naphthalene	Phenan threne	Phenol	Pyrene
		Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
		CGWSL:	--	--	2.19E+03	--	--	1.10E+04	6.00E+00	--	--	2.92E+04	3.65E+03	--	1.46E+03	1.46E+03	3.00E+01	1.10E+03	5.00E+00	1.10E+03
		Source:	--	--	NMED TW	--	--	NMED TW	EPA MCL	--	--	NMED TW	NMED TW	--	NMED TW	NMED TW	WQCC HH	NMED TW	WQCC Dom	NMED TW
Location	Dup	Date																		
OCD-2A		04/01/2009																		
OCD-2A	Dup #2	04/01/2009																		
OCD-2A		09/22/2009																		
OCD-3		04/01/2009																		
OCD-3		09/22/2009																		
OCD-4		04/01/2009																		
OCD-4		09/22/2009																		
OCD-5		04/01/2009																		
OCD-5		09/22/2009																		
OCD-6		04/01/2009																		
OCD-6		09/21/2009																		
OCD-7A		04/01/2009																		
OCD-7A		09/21/2009																		
OCD-7A	Dup #2	09/21/2009																		
OCD-8A		04/02/2009																		
OCD-8A		09/22/2009																		
LarueWell		04/16/2009																		
LarueWell		09/30/2009																		
RA-313		10/05/2009																		
RA-3156		04/16/2009																		
RA-3156		09/30/2009																		
RA-4196		04/16/2009																		
RA-4196		09/30/2009																		
RA-4798		04/16/2009																		
RA-4798		09/30/2009																		
RW-1		04/16/2009																		
RW-1		10/01/2009																		
RW-18		04/07/2009																		
RW-18		09/29/2009																		
TEL-1		04/16/2009																		
TEL-1	Dup #9	04/16/2009																		
TEL-1		09/25/2009																		
TEL-2		04/16/2009																		
TEL-2		09/25/2009																		
TEL-3		04/16/2009																		
TEL-3		09/25/2009																		
TEL-4		04/16/2009																		
TEL-4		09/25/2009																		
UG-1		04/09/2009																		
UG-1		10/02/2009																		
UG-2		04/09/2009																		
UG-2		10/02/2009																		
UG-3R		04/09/2009																		
UG-3R		10/02/2009																		

Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

			Cations/Anions						Water Quality Parameters		
			Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	Total Alkalinity	Nitrogen	Total Dissolved Solids
		Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CGWSL:	--	2.50E+02	1.60E+00	--	--	6.00E+02	--	1.00E+01	1.00E+03
		Source:	--	WQCC Dom	WQCC HH	--	--	WQCC Dom	--	WQCC HH	WQCC Dom
Location	Dup	Date									
KWB-1A		04/07/2009	385	210	0.784	1.02	170	1890	365	<0.5	3610
KWB-1A		09/29/2009	382	198	0.955	0.969	168	1850	409	0.709	3570
KWB-1C		04/07/2009	403	190	0.68	1.33	178	1850	346	<0.5	3660
KWB-1C		09/29/2009	350	197	1.24	0.866	156	1820	400	<0.5	3590
KWB-3AR		04/09/2009	601	176	<0.5	1.05	329	2780	379	12.1	5270
KWB-3AR		09/29/2009	582	176	<0.5	0.545	411	3050	335	11.9	5490
KWB-7		04/07/2009	313	474	<0.5	1.25	229	1860	630	5.74	2940
KWB-7		10/05/2009	327	517	0.789	0.467	256	1010	686	7.15	3130
KWB-9		04/08/2009	433	205	<0.5	0.812	141	1370	482	0.564	2990
KWB-9		09/29/2009	408	242	<0.5	0.791	137	1450	424	1.17	3070
KWB-10		04/07/2009		166	0.764			26.8	644	0.778	1070
KWB-11A		04/07/2009	389	864	<0.5	1.67	269	814	466	30.1	3510
KWB-11A		10/05/2009	366	890	0.84	0.426	254	954	477	33.7	3940
KWB-12A		09/29/2009	500	130	<0.5	0.716	138	2290	281	5.47	4010
KWB-13		04/13/2009	496	181	<0.5	1.02	154	1760	255	13	3270
KWB-13	Dup #6	04/13/2010	505	181	<0.5	1.25	124	1760	282	13.8	3370
KWB-13		09/29/2009	491	157	0.501	0.934	147	1710	286	14.4	3500
KWB-P2		04/09/2009	621	994	<0.5	2.02	337	1880	351	39.7	2040
MW-1R		04/02/2009	646	1830	0.515	3.62	1150	1840	167	<0.5	6240
MW-1R		09/23/2009	538	1690	0.612	4.18	950	1850	198	<1	5960
MW-2A		04/01/2009	562	3750	4.74	5.34	2550	2960	335	0.712	10400
MW-2A		04/02/2009	478	3230	2.64	9.23	2540	4960	523	<0.5	12800
MW-2A		09/21/2009	394	2020	5.45	4.58	1180	1980	207	<1	6900
MW-3		04/01/2009	517	1090	1.91	4.26	730	2260	236	<0.5	4960
MW-3		09/21/2009	473	976	2.11	4.83	699	1870	236	<1	4700
MW-4A		04/06/2009	352	1180	1.55	5.33	725	1540	216	<0.5	4540
MW-4A		09/23/2009	380	1280	1.65	3.74	833	1570	222	<1	4710
MW-5A		09/22/2009	468	3360	2.71	7.98	2800	5160	414	<1	13200
MW-5A	Dup #3	09/22/2009	513	3320	2.7	8.28	3130	5160	419	<1	16400
MW-6A		04/01/2009	294	864	1.35	1.32	733	1510	148	<0.5	3720
MW-6A		09/21/2009	259	876	1.32	1.18	679	1470	130	<1	3680
MW-7A		04/02/2009	434	1980	0.972	4.02	1820	2450	455	<0.5	6880
MW-7A		09/22/2009	360	1960	1.1	3.9	1550	2430	246	<1	7580
MW-8		04/03/2009	359	344	1.89	1.53	275	2570	296	3.21	4380
MW-8		10/05/2009	482	425	2.02	1.75	391	2690	293	12.2	5350
MW-9		04/03/2009	564	476	2.08	2.21	500	3200	335	16.6	5570
MW-9		10/05/2009	463	508	2.11	2.14	408	2860	283	18.3	5850
MW-10		04/06/2009		1370	0.519	5.69	928	1880	216	<0.5	5260
MW-10		09/23/2009	497	1680	0.596	3.29	945	1900	236	<1	5530
MW-11A		04/02/2009	1160	9040	0.503	21.2	4930	2820	416	<0.5	18000
MW-11A		09/22/2009	1010	9290	0.698	21.9	4370	2850	366	<1	19100
MW-15		04/06/2009	621	1280	3.43	7.25	806	2070	167	<0.5	5290
MW-15		09/23/2009	620	1500	1.22	5.85	775	1970	111	<1	5830
MW-16		04/02/2009	528	502	2.12	8.1	434	2280	249	0.577	4740
MW-16	Dup #3	04/02/2009	549	521	2.15	8.8	442	1990	296	0.579	4830
MW-16		09/17/2009	514	495	2.01	8.58	391	2350	262	<1	4510
MW-17		04/09/2009	370	166	0.655	2.18	85.1	1200	115	2.04	2270
MW-17		09/28/2009	355	118	0.742	2.18	56	1030	101	2.07	1910
MW-17	Dup #7	09/29/2009	340	121	0.731	1.98	60.5	1070	101	2.21	1950
MW-18		04/13/2009	344	177	0.721	1.45	76.9	1240	399	13.7	2690
MW-18		09/24/2009	359	173	0.713	1.29	90.3	1160	430	11.2	2680

Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

			Cations/Anions						Water Quality Parameters		
			Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	Total Alkalinity	Nitrogen	Total Dissolved Solids
		Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CGWSL:	--	2.50E+02	1.60E+00	--	--	6.00E+02	--	1.00E+01	1.00E+03
		Source:	--	WQCC Dom	WQCC HH	--	--	WQCC Dom	--	WQCC HH	WQCC Dom
Location	Dup	Date									
MW-18A		04/02/2009	649	*5410*	*2.41*	31.3	3530	*5000*	372	<0.5	*15600*
MW-18A		09/22/2009	616	*6130*	*2.32*	38	3590	*5180*	308	<1	*16400*
MW-20		04/03/2009	494	*353*	*2.32*	0.632	290	*3120*	277	2.12	*5480*
MW-20		10/05/2009	399	*301*	*2.46*	0.415	229	*3000*	273	1.5	*5710*
MW-21		04/03/2009	556	*462*	*1.71*	1.92	479	*3150*	301	*15.6*	*5800*
MW-21		10/05/2009	479	*475*	*1.62*	1.75	411	*2930*	293	*16.8*	*5950*
MW-22A		04/06/2009	565	*1750*	0.561	3.64	1320	*1920*	196	<0.5	*5780*
MW-22A		09/23/2009	480	*1810*	0.517	3.13	1140	*2040*	217	<1	*6430*
MW-23		04/14/2009	112	*467*	0.592	1.3	433	15.9	1140	<0.5	*2040*
MW-23		09/28/2009	73.1	*555*	1.06	1.24	454	29.7	1010	<0.5	*2270*
MW-25		04/06/2009	294	*882*	0.878	5.2	581	*1240*	157	0.525	*3570*
MW-25		09/23/2009	279	*825*	1.1	3.46	535	*1230*	159	<1	*3560*
MW-26		04/02/2009	566	*734*	*1.74*	4.38	502	*3540*	177	<0.5	*6720*
MW-26		09/17/2009	445	*590*	*1.92*	3.9	313	*2860*	179	<1	*5310*
MW-27		04/03/2009	441	212	0.979	9.23	142	*1430*	201	1.65	*2720*
MW-27		09/17/2009	379	201	1.18	9.54	135	*1350*	199	2.6	*2710*
MW-28		04/14/2009	251	179	0.919	0.484	99.8	567	858	<0.5	*2090*
MW-28		09/25/2009	228	182	1.1	0.38	102	460	760	<1	*1830*
MW-29		04/13/2009	440	*398*	*1.97*	3.18	415	*1890*	591	<0.5	*3900*
MW-29		09/24/2009	397	*454*	*1.69*	3.35	386	*2140*	670	<1	*4780*
MW-41		04/13/2009	316	*935*	0.522	0.87	680	*1250*	1090	1.08	*4430*
MW-41		09/24/2009	248	*736*	0.546	0.502	504	*1210*	1040	<1	*4070*
MW-42	Dup #7	04/13/2009	210	*641*	0.595	0.743	410	*874*	1120	1.07	*3400*
MW-42		04/13/2009	203	*693*	0.502	0.682	392	991	875	<0.5	*3460*
MW-42		09/24/2009	237	*750*	0.605	0.462	425	*979*	1030	<1	*3680*
MW-43		04/14/2009	99.6	*652*	0.624	0.508	632	140	1120	<0.5	*2290*
MW-43		09/28/2009	133	*626*	0.69	0.561	584	128	972	<0.5	*2280*
MW-45		04/06/2009	383	*264*	*1.75*	5.69	207	*1690*	304	<0.5	*3200*
MW-45		09/24/2009	445	*343*	*2*	4.59	228	*1840*	320	<1	*3850*
MW-49		04/14/2009	216	*541*	0.977	2.12	298	358	703	1.07	*2310*
MW-50		04/09/2009	374	170	0.583	2.11	116	*1290*	304	<0.5	*2700*
MW-50		09/28/2009	373	167	0.863	2.37	114	*1310*	311	0.565	*2690*
MW-50	Dup #6	09/28/2009	408	167	0.723	2.47	121	*1280*	316	<0.5	*2730*
MW-52		04/08/2009	190	*261*	1.4	<0.4	342	*1060*	616	2.24	*2600*
MW-52		09/30/2009	165	180	1.42	0.328	314	*1030*	552	2.18	*2330*
MW-52	Dup #8	09/30/2009	191	181	*1.71*	0.316	361	*1020*	538	2.11	*2500*
MW-53		04/08/2009	330	119	0.848	1.07	98.1	*1250*	265	0.507	*2370*
MW-53		10/05/2009	282	135	0.99	0.91	92.7	*1290*	223	2.27	*2460*
MW-54A		04/08/2009	384	*286*	0.668	<0.4	48.4	*754*	520	<0.5	*2230*
MW-54A		10/05/2009	373	249	0.768	<0.2	53.8	*779*	408	<0.5	*2240*
MW-54A	Dup #11	10/05/2009	373	*262*	0.797	<0.2	52.1	*758*	504	<0.5	*2280*
MW-55		04/10/2009	447	*278*	0.911	0.897	218	*2140*	313	6.23	*4190*
MW-55		09/24/2009	476	*277*	1.15	0.934	241	*2480*	280	6.58	*4850*
MW-56		04/10/2009	524	*329*	0.75	2.09	217	*1920*	432	0.619	*3940*
MW-56		09/24/2009	504	*337*	0.854	1.99	190	*1850*	380	<1	*4030*
MW-56	Dup #5	09/24/2009	496	*338*	0.853	1.94	185	*1830*	390	<1	*4100*
MW-58		04/08/2009	214	*327*	0.701	<0.2	102	209	770	<0.5	*1610*
MW-58		09/30/2009	222	*317*	1.11	0.281	105	95.9	794	<0.5	*1500*
MW-61		04/09/2009	438	*1190*	0.703	0.846	382	*1010*	653	<0.5	*4670*
MW-61		10/01/2009	445	*1050*	0.858	0.684	467	*824*	658	<0.5	*4320*

Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

			Cations/Anions						Water Quality Parameters		
			Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	Total Alkalinity	Nitrogen	Total Dissolved Solids
		Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CGWSL:	--	2.50E+02	1.60E+00	--	--	6.00E+02	--	1.00E+01	1.00E+03
		Source:	--	WQCC Dom	WQCC HH	--	--	WQCC Dom	--	WQCC HH	WQCC Dom
Location	Dup	Date									
MW-62		04/14/2009	186	171	0.72	1.08	177	158	943	<0.5	1600
MW-62		10/01/2009	180	201	0.888	0.907	168	105	806	<0.5	1600
MW-66		04/14/2009	153	238	0.901	1.09	191	6.21	883	<0.5	1230
MW-66		09/25/2009	136	231	1.05	0.74	177	6.96	750	<0.1	1230
MW-67		04/14/2009	177	238	<0.5	0.632	127	322	729	<0.5	1590
MW-67		10/01/2009	254	202	<0.5	0.719	142	558	544	<0.5	2030
MW-68		04/03/2009	239	186	1.8	3.81	142	1150	234	3.32	2290
MW-68		09/29/2009	379	381	1.61	4.63	221	1380	281	9.38	3200
MW-70		04/02/2009	647	1100	<0.5	4.38	637	2010	264	<0.5	4990
MW-70		09/22/2009	576	1050	0.606	4.69	534	1970	217	<1	5390
MW-72		03/30/2009	762	3800	5.84	8.88	2130	2760	317	<0.5	10600
MW-72		09/18/2009	747	4050	5.36	9.55	2200	2820	228	<1	10800
MW-73		03/30/2009	571	2410	2.06	2.2	2040	3770	452	<0.5	10200
MW-73		09/18/2009	542	2290	3.38	3.71	2190	3570	402	1.44	9130
MW-74		03/30/2009	636	2060	8.53	36.2	1930	3270	360	0.552	8140
MW-74		09/18/2009	582	2050	8.73	37.9	1880	3240	373	3.16	8610
MW-75		03/30/2009	340	1480	9.93	21.5	1510	2020	509	<0.5	5840
MW-75	Dup #1	09/18/2009	340	1550	8.46	18.2	1430	1910	581	<1	5800
MW-75		09/18/2009	322	1500	8.48	18.1	1370	1840	591	<1	5900
MW-76		03/31/2009	415	1400	3.32	25.2	949	1960	266	0.724	5460
MW-76		09/17/2009	450	1310	3.22	23.6	1130	2000	344	<1	5710
MW-77		03/31/2009	439	1580	2.76	43.3	1210	2420	463	<0.2	6460
MW-77		09/17/2009	445	1510	2.53	49.7	1380	2310	494	<1	6080
MW-78		03/31/2009	372	1110	8.38	21.9	835	2000	443	<0.2	5420
MW-78		09/17/2009	339	1080	11.1	20.3	805	1760	358	<1	5030
MW-79		03/31/2009	562	2120	11.4	10.1	1490	2230	246	0.762	8600
MW-79	Dup #1	03/31/2009	606	2290	11.4	11.3	1690	2460	216	0.76	8680
MW-79		09/18/2009	607	2170	10.2	9.8	1400	2180	218	<1	7770
MW-80		03/31/2009	535	1300	4.75	3.56	1200	1900	207	0.809	5110
MW-80		09/18/2009	537	1340	4.28	3.57	851	1930	184	<1	5650
MW-81		03/31/2009	566	1490	8.92	8.81	1060	2260	286	2.16	6140
MW-81		09/18/2009	501	1290	8.55	6.5	993	1990	218	4.57	4990
MW-82		03/31/2009	348	1460	13.1	8.91	1630	2380	852	<0.5	8320
MW-82		09/21/2009	327	1480	13.4	9.14	1640	2420	718	<1	7090
MW-83		03/31/2009	339	1180	4.03	29.2	946	1840	502	<0.5	5050
MW-83		09/21/2009	386	715	4.32	41.8	1010	2950	655	<1	6090
MW-84		03/31/2009	608	1770	4.84	6.64	1400	3490	561	<0.5	8470
MW-84		09/21/2009	654	2010	4.84	6.32	1560	3780	434	<1	8380
MW-87		04/06/2009	677	4340	1.52	23.1	2670	4110	255	<0.5	14300
MW-87		09/22/2009	594	4290	1.67	22.4	2720	4300	270	<1	13000
MW-88		04/06/2009	374	1470	0.733	3.79	1010	1890	201	0.595	5580
MW-88	Dup #4	04/06/2009	392	1500	0.765	2.94	1030	1990	192	<0.5	6500
MW-88		09/23/2009	348	1370	0.814	2.79	973	1800	207	<1	5380
MW-88	Dup #4	09/23/2009	324	1370	0.818	2.69	901	1800	212	<1	5390
MW-89		04/02/2009	536	419	2.31	8.33	188	3190	186	0.55	3040
MW-89		09/17/2009	493	218	3.09	10.7	180	1630	199	<1	3020
MW-90		04/15/2009	283	114	1.31	1.69	311	1640	567	<0.5	3770
MW-90		10/01/2009	273	98.9	1.27	1.26	279	1500	603	<0.5	3420
MW-91		04/15/2009	241	48.8	0.625	0.523	51.3	535	713	<0.5	1820
MW-91		10/01/2009	284	20.1	1.12	0.354	43	790	722	0.562	2250

Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

			Cations/Anions						Water Quality Parameters		
			Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	Total Alkalinity	Nitrogen	Total Dissolved Solids
		Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CGWSL:	--	2.50E+02	1.60E+00	--	--	6.00E+02	--	1.00E+01	1.00E+03
		Source:	--	WQCC Dom	WQCC HH	--	--	WQCC Dom	--	WQCC HH	WQCC Dom
Location	Dup	Date									
MW-92		04/15/2009	172	401	0.549	0.59	325	310	970	<0.5	2280
MW-92		10/01/2009	137	603	0.871	0.922	446	40	1100	<0.1	2260
MW-93		04/15/2009	329	60.1	1.26	4.55	90.3	817	529	<0.5	2000
MW-93		10/01/2009	314	46.7	1.32	2.6	77.5	709	480	<0.5	1920
MW-95		04/15/2009	240	261	<0.5	0.446	112	477	669	<0.5	1980
MW-95		10/01/2009	216	235	0.657	0.339	112	488	643	<0.5	2060
MW-96		04/15/2009	164	248	0.667	0.829	214	308	839	<0.5	1880
MW-96	Dup #8	04/15/2009	166	242	0.63	0.78	214	337	854	<0.5	1830
MW-96		10/01/2009	178	222	1.04	0.832	251	243	757	0.633	1790
MW-96	Dup #9	10/01/2009	180	220	0.791	0.824	253	242	801	<0.5	1710
MW-98		04/15/2009	294	18.3	0.73	<0.4	72.9	1610	320	<0.5	2860
MW-98		09/28/2009	419	55.4	1.64	0.214	77	2040	518	<0.5	3810
MW-99		04/15/2009	177	248	<0.5	0.594	133	218	616	<0.5	1390
MW-99		09/28/2009	190	249	<0.5	0.57	206	205	774	<0.5	1680
MW-101		04/15/2009	171	289	<0.5	0.581	180	229	718	<0.5	1680
MW-101		09/28/2009	196	241	0.847	0.614	147	212	617	<0.5	1440
MW-103		03/16/2009	12.1	919	12	1.15	1050	42.5	1020	<1	2710
MW-103		09/28/2009	13.4	819	11.7	0.92	1010	39.8	1060	<0.5	2700
MW-104		03/16/2009	208	64.8	2.91	5.01	38.3	620	139	<1	1180
MW-104		09/28/2009	291	74.1	2.33	6.69	61.4	730	202	<0.5	1560
MW-106		09/28/2009	416	83.2	0.989	2.46	194	1880	508	0.507	3680
MW-107		09/28/2009	161	306	0.918	1.77	68.7	0	730	<0.5	1570
MW-108		10/01/2009	396	120	4.93	6.87	73.9	978	593	0.544	2580
NCL-32		04/10/2009	453	204	1.49	5.83	64.8	1130	386	<0.5	2560
NCL-32		09/24/2009	989	198	2.54	25.3	76.4	1100	290	<1	2540
NCL-33		04/10/2009	476	511	2.22	4.06	94.4	937	483	1.03	3160
NCL-33		09/24/2009	430	468	2.4	4.8	88	882	450	<1	3010
NCL-34		04/10/2009	256	434	2.22	1.75	112	134	570	1.03	1860
NCL-34		09/24/2009	230	379	1.28	2.04	121	128	550	<1	1890
NCL-44		04/10/2009	268	171	1.35	1.95	54.5	496	630	<0.5	1800
NCL-44		09/24/2009	249	185	1.4	2.15	59.2	469	550	<1	1710
NCL-49		04/08/2009	461	165	<0.5	0.708	117	1720	260	9.65	3180
NCL-49	Dup #5	04/08/2009	457	163	<0.5	0.707	115	1720	202	9.29	3210
NCL-49		10/05/2009	443	152	0.561	0.458	123	1630	224	9.33	3190
NP-1		04/08/2009									
NP-1		09/30/2009									
NP-2		04/08/2009									
NP-2		09/30/2009									
NP-3		04/03/2009	459	321	1.32	4.32	199	2030	277	<0.5	3460
NP-3		10/05/2009	322	242	1.74	2	143	1700	263	0.838	3330
NP-3	Dup #10	10/05/2009	340	243	1.36	1.96	152	1670	278	0.85	3400
NP-5		04/08/2009	527	171	2.62	0.441	516	4470	289	<0.5	6930
NP-5		10/05/2009	418	164	2.7	0.212	413	3980	258	5.75	6690
NP-6		04/08/2009	577	671	1.93	3.23	416	2640	313	36.4	5180
NP-6		10/05/2009	500	780	2.22	2.71	373	12710	278	41.9	6660
NP-9		04/10/2009	508	403	2.7	1.59	215	2180	451	<0.5	4420
NP-9		09/24/2009	522	420	2.72	1.36	207	2270	460	<1	4740
OCD-1R		09/21/2009	559	2410	5.46	5.36	1500	2340	222	<1	8560
OCD-1R		04/01/2009	569	2770	5.26	5.21	1220	2220	172	<0.5	8220

Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

			Cations/Anions						Water Quality Parameters		
			Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	Total Alkalinity	Nitrogen	Total Dissolved Solids
		Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		CGWSL:	--	2.50E+02	1.60E+00	--	--	6.00E+02	--	1.00E+01	1.00E+03
		Source:	--	WQCC Dom	WQCC HH	--	--	WQCC Dom	--	WQCC HH	WQCC Dom
Location	Dup	Date									
OCD-2A		04/01/2009	590	2360	0.811	4.09	1250	2770	175	<0.5	7080
OCD-2A	Dup #2	04/01/2009	656	2270	0.776	4.81	1390	2650	236	0.714	6980
OCD-2A		09/22/2009	482	1570	0.718	3.64	825	1770	169	<1	5380
OCD-3		04/01/2009	426	1010	0.783	12.9	596	1350	125	<0.5	3700
OCD-3		09/22/2009	377	958	0.949	11.4	490	1490	130	<1	4120
OCD-4		04/01/2009	777	4630	0.595	35.4	2380	2910	161	<0.5	10800
OCD-4		09/22/2009	743	4590	0.723	33.4	2460	2770	193	<1	10800
OCD-5		04/01/2009	789	4950	0.614	32.8	2820	2990	184	<0.5	11600
OCD-5		09/22/2009	764	4650	0.754	29.9	2780	2690	217	<1	12600
OCD-6		04/01/2009	599	3480	3.22	11.6	2710	3270	566	<0.5	11400
OCD-6		09/21/2009	545	3680	3.29	12.2	2590	3170	564	<1	11300
OCD-7A		04/01/2009	550	2170	4.57	7.16	2000	3050	601	0.673	9210
OCD-7A		09/21/2009	588	2200	4.32	7.32	2040	3280	540	<1	9930
OCD-7A	Dup #2	09/21/2009	512	2160	4.41	6.69	1840	3220	554	<1	9890
OCD-8A		04/02/2009	573	2700	2.84	7.88	2220	3380	499	<0.5	9550
OCD-8A		09/22/2009	645	2880	3.4	9.25	2500	3840	520	<1	10100
LarueWell		04/16/2009	423	116	<0.5	1.66	104	1440	245	7.85	2690
LarueWell		09/30/2009	408	117	0.382	1.65	110	1450	256	7.7	2770
RA-313		10/05/2009	154	15.2	0.711	0.876	13	429	184	1.14	976
RA-3156		04/16/2009	454	218	<0.5	2.54	140	1490	231	5.28	2880
RA-3156		09/30/2009	433	231	<0.5	2.5	143	1520	242	5.74	3080
RA-4196		04/16/2009	377	675	<0.5	2.89	419	1230	157	<0.15	3370
RA-4196		09/30/2009	425	329	<0.5	2.39	158	1280	197	<0.5	2770
RA-4798		04/16/2009	238	70	<0.5	2.02	44.7	768	128	<0.5	1460
RA-4798		09/30/2009	457	165	<0.5	2.34	127	1560	286	0.758	3000
RW-1		04/16/2009	300	312	0.573	1.84	290	736	820	<0.5	2670
RW-1		10/01/2009	218	324	0.597	1.11	252	671	742	<0.5	2510
RW-18		04/07/2009	509	321	1.98	0.864	231	3140	255	1.07	5520
RW-18		09/29/2009	522	309	1.93	1.19	214	2920	296	1.53	0
TEL-1		04/16/2009	214	249	1.96	0.805	444	919	582	<0.5	2590
TEL-1	Dup #9	04/16/2009	205	251	1.93	1	462	908	618	<0.5	2560
TEL-1		09/25/2009	280	126	2.14	0.881	430	507	640	<1	2850
TEL-2		04/16/2009	224	392	0.562	1.19	384	825	825	<0.5	3040
TEL-2		09/25/2009	206	411	0.9	1.34	357	737	930	<1	3030
TEL-3		04/16/2009	304	597	2.06	3.92	325	580	698	<0.5	2660
TEL-3		09/25/2009	611	34.2	2.93	5.64	52.3	1520	400	<1	3180
TEL-4		04/16/2009	274	508	<0.5	0.593	219	680	689	<0.5	2570
TEL-4		09/25/2009	302	595	0.615	0.547	263	844	920	<1	3220
UG-1		04/09/2009	907	177	<0.5	7.06	70.5	1900	1330	5.54	3410
UG-1		10/02/2009	487	166	0.691	2.07	65.4	1810	252	7.21	3450
UG-2		04/09/2009	374	62.1	1.25	4.61	75.9	1010	120	1.7	1940
UG-2		10/02/2009	284	53	1.3	4.04	67	961	247	2.56	1900
UG-3R		04/09/2009	434	62.9	<0.5	4.06	63.3	1390	379	4.96	2590
UG-3R		10/02/2009	451	68	0.565	3.47	59.6	1330	208	5.38	2520

Table 1
2009 Groundwater Monitoring Program Analytical Results
Navajo Refinery, Artesia, New Mexico

Explanation of data presentation

0.33	Reported value exceeds the CGWSL
< 10	Analyte not detected at Method Quantitation Limit shown.
	Anaylte not analyzed for this sample.

Abbreviations:

CGWSL = Critical Groundwater Screening Level
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
mg/L = Milligrams per liter
TPH = Total Petroleum Hydrocarbons
ug/L = Micrograms per liter

Groundwater Screening Level Sources:

" -- " = No standard available
MCL = Maximum Contaminant Level from the National Primary Drinking Water Standards
NMED TPH = New Mexico Environment Department Total Petroleum Hydrocarbon Standards, October 2006
NMED TW = New Mexico Environment Department Tap Water Standard, December 2009 (from Soil Screening Level guidance document)
WQCC HH = Water Quality Control Commission; human health standard for groundwater from NMAC 20.6.2.3103.A
WQCC Dom = Water Quality Control Commission; domestic water supply standard for groundwater from NMAC 20.6.2.3103.B
WQCC Irr = Water Quality Control Commission; irrigtaion use standard for groundwater from NMAC 20.6.2.3103.C
Heirarchy of selecting the CGWSL is as follows:

1. Lowest of either NMED GW Standards (20.6.2.3103) or EPA MCL was selected.
2. If no NMED GW Standard or EPA MCL available, then NMED Tap Water value from SSG Table A-1, if available.
3. NMED TPH screening for "unknown oil" used for both DRO range TPH.

Table 2
Summary of Field Observations 2009
Navajo Refinery, Artesia, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Screened Interval	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	Product Thickness (ft)	Groundwater Elevation (ft amsl)	Date Sampled	Sampling Method	Conductivity (S/m)	Temperature (°C)	pH (SU)	DO (mg/L)	ORP (mV)
KWB #1A	3/25/2009	3351.87	18 to 32	--	14.04	34.06	0.00	3337.83	4/7/2009	SP	0.436	17.580	6.980	2.260	-6
KWB #1A	9/15/2009	3351.87	18 to 32	--	14.20	33.8	0.00	3337.67	9/29/2009	SP	3.900	23.580	8.110	4.270	-160
KWB #1B	3/25/2009	3351.06	18 to 32	--	15.18	33.99	0.00		not sampled - measurements only						
KWB #1B	9/15/2009	3351.06	18 to 32	--	15.55	34	0.00		not sampled - measurements only						
KWB #1C	3/25/2009	3351.59	30.5 to 49.5	--	15.78	52.77	0.00	3335.81	4/7/2009	SP	0.432	17.870	7.000	1.420	15
KWB #1C	9/15/2009	3351.59	30.5 to 49.5	--	16.15	52.75	0.00	3335.44	9/29/2009	SP	3.820	21.370	7.990	4.210	-169
KWB #2R	3/25/2009	3354.31		23.52	24.85	39.87	1.33	3330.62	not sampled - product in well						
KWB #2R	9/16/2009	3354.31		19.39	19.40	39.91	0.01	3334.92	SP						
KWB #3AR	3/25/2009	3345.20		--	23.50	33.7	0.00	3321.70	4/9/2009	SP	0.570	17.740	7.140	8.100	180
KWB #3AR	9/16/2009	3345.20		--	18.78	33.66	0.00	3326.42	9/29/2009	SP	5.410	22.760	7.420	9.540	-20
KWB #4	3/27/2009	3368.33	20 to 39	25.21	29.25	40.74	4.04	3342.59	not sampled - product in well						
KWB #4	9/15/2009	3368.33	20 to 39	22.93	25.47	40.74	2.54	3345.07	not sampled - product in well						
KWB #5	3/25/2009	3363.02	24.7 to 38.7	24.78	24.92	37.7	0.14	3338.22	not sampled - product in well						
KWB #5	9/15/2009	3363.02	24.7 to 38.7	22.14	22.73	37.55	0.59	3340.80	not sampled - product in well						
KWB #6	3/25/2009	3358.71	17.5 to 36.5	22.72	25.87	36.41	3.15	3335.58	not sampled - product in well						
KWB #6	9/15/2009	3358.71	17.5 to 36.5	18.89	18.91	36.27	0.02	3339.82	not sampled - product in well						
KWB #7	3/25/2009	3344.14	18 to 32	--	23.95	34.85	0.00	3320.19	4/7/2009	SP	0.421	17.810	6.940	2.910	100
KWB #7	9/16/2009	3344.14	18 to 32	--	17.90	34.84	0.00	3326.24	10/5/2009	SP	4.210	19.740	6.720	0.180	106
KWB #8	3/25/2009	3348.59	Not Measured - Pump in Place						not sampled - product in well						
KWB #8	9/16/2009	3348.59	Not Measured - Pump in Place						not sampled - product in well						
KWB #9	3/25/2009	3352.67	20 to 34	--	28.42	37.51	0.00	3324.25	4/8/2009	SP	0.373	17.920	6.880	2.840	262
KWB #9	9/16/2009	3352.67	20 to 34	--	21.68	37.48	0.00	3330.99	9/29/2009	SP	Horiba meter broken				
KWB #10	3/25/2009	3355.07	35.5 to 49.5	--	18.82	23.58	0.00	3336.25	4/7/2009	SP	0.196	18.820	7.020	1.860	-46
KWB #10	9/16/2009	3355.07	35.5 to 49.5	--	17.39	49	0.00	3337.68	9/29/2009	SP	not sampled - broken casing				
KWB #11A	3/25/2009	3346.09	30 to 39.5	--	24.88	42.25	0.00	3321.21	4/7/2009	SP	0.505	17.650	6.840	2.550	152
KWB #11A	9/16/2009	3346.09	30 to 39.5	--	18.19	42.24	0.00	3327.90	10/5/2009	SP	5.030	20.490	6.570	0.980	108
KWB #11B	3/25/2009	3346.88	50 to 69.5	--	25.57	72.43	0.00	3321.31	not sampled - measurements only						
KWB #11B	9/16/2009	3346.88	50 to 69.5	--	18.99	72.4	0.00	3327.89	not sampled - measurements only						
KWB #12A	3/25/2009	3349.65	15.5 to 24.5	--	DRY	25.11	0.00	DRY	not sampled - well was dry						
KWB #12A	9/16/2009	3349.65	15.5 to 24.5	--	19.74	25.07	0.00	3329.91	9/29/2009	SP	Horiba meter broken				
KWB #12B	3/25/2009	--	25.5 to 39.5	--	26.95	39.41	0.00		not sampled - measurements only						
KWB #12B	9/16/2009	--	25.5 to 39.5	--	19.51	39.43	0.00		not sampled - measurements only						
KWB #13	3/25/2009	3366.84		--	26.80	33.25	0.00	3340.04	4/13/2009	SP	0.414	17.420	7.180	2.430	89
KWB #13	9/14/2009	3366.84		--	21.30	33.16	0.00	3345.54	9/29/2009	SP	3.540	21.170	7.630	10.400	-90
KWB #P2	3/26/2009	3337.28		--	29.49	33.65	0.00	3307.79	4/9/2009	SP	0.642	18.810	7.120	5.390	195
KWB #P2	9/15/2009	3337.28		--	30.91	33.62	0.00	3306.37	9/29/2009		not sampled - well was dry				
KWB #P3	3/26/2009	--		--	8.83	29.14	0.00		not sampled - measurements only						
KWB #P3	9/15/2009	--		--	9.40	29.13	0.00		not sampled - measurements only						

Table 2
Summary of Field Observations 2009
Navajo Refinery, Artesia, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Screened Interval	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	Product Thickness (ft)	Groundwater Elevation (ft amsl)	Date Sampled	Sampling Method	Conductivity (S/m)	Temperature (°C)	pH (SU)	DO (mg/L)	ORP (mV)
KWB #P4	3/26/2009	--		--	6.27	30.95	0.00		not sampled - measurements only						
KWB #P4	9/15/2009	--		--	5.09	30.14	0.00		not sampled - measurements only						
KWB #P5	3/26/2009	--	Not locatable (in highway right of way, covered)												
KWB #P5		--	Destroyed												
La Rue Well			Not measured - domestic well						4/16/2009	SP	0.324	16.770	7.920	11.640	22
La Rue Well			Not measured - domestic well						9/30/2009	SP	No Measurements				
MW #1R	3/25/2009	3311.93		--	9.15	20.9	0.00	3302.78	4/2/2009	LF	0.872	18.590	7.470	3.260	-122
MW #1R	9/15/2009	3311.93		--	9.47	20.8	0.00	3302.46	9/23/2009	LF	8.370	22.860	8.350	5.580	296
MW #2A	3/25/2009	3309.82		--	8.41	17.31	0.00	3301.41	4/1/2009	LF	1.510	16.580	7.390	4.010	-53
MW #2A									4/2/2009	LF	1.700	17.170	7.350	2.930	-110
MW #2A	9/14/2009	3309.82		--	8.86	17.28	0.00	3300.96	9/21/2009	LF	11.300	25.230	7.210	1.780	-105
MW #2B	3/25/2009	--		--	9.75	51.99	0.00		not sampled - measurements only						
MW #2B	9/14/2009	--		--	10.38	24.98	0.00		not sampled - measurements only						
MW #3	3/25/2009	3308.42		--	8.28	20.34	0.00	3300.14	4/1/2009	LF	0.670	18.260	7.340	4.840	-33
MW #3	9/14/2009	3308.42		--	9.20	20.32	0.00	3299.22	9/21/2009	LF	6.610	24.500	7.090	1.950	-112
MW #4A	3/26/2009	3309.69		--	10.94	22.38	0.00	3298.75	4/6/2009	LF	0.100	18.950	7.740	6.380	165
MW #4A	9/14/2009	3309.69		--	11.89	22.27	0.00	3297.80	9/23/2009	LF	6.800	23.940	9.510	5.330	224
MW #4B	3/26/2009	--		--	10.19	72.28	0.00		not sampled - measurements only						
MW #4B	9/14/2009	--		--	11.09	72.23	0.00		not sampled - measurements only						
MW #5A	3/26/2009	3307.27		--	7.98	20.08	0.00	3299.29	4/2/2009	LF	1.700	17.170	7.350	2.930	-110
MW #5A	9/14/2009	3307.27		--	8.80	20.15	0.00	3298.47	9/22/2009	LF	8.680	22.000	5.390	3.070	-117
MW #5B	3/26/2009	3306.18	41.5 to 50.5	--	7.73	53.31	0.00		not sampled - measurements only						
MW #5B	9/14/2009	3306.18	41.5 to 50.5	--	8.68	53.38	0.00		not sampled - measurements only						
MW #5C	3/26/2009	3306.54	59.25 to 68.75	--	7.80	71.51	0.00		not sampled - measurements only						
MW #5C	9/14/2009	3306.54	59.25 to 68.75	--	8.80	71.79	0.00		not sampled - measurements only						
MW #6A	3/25/2009	3310.67		--	11.38	19.04	0.00	3299.29	4/1/2009	LF	0.551	19.210	7.790	3.000	-126
MW #6A	9/14/2009	3310.67		--	12.24	19.1	0.00	3298.43	9/21/2009	LF	5.650	23.270	7.640	1.750	-168
MW #6B	3/25/2009	--		--	11.15	52.28	0.00		not sampled - measurements only						
MW #6B	9/14/2009	--		--	11.96	52.33	0.00		not sampled - measurements only						
MW #7A	3/25/2009	3306.15		--	6.84	17.31	0.00	3299.31	4/2/2009	LF	1.180	18.100	7.550	2.540	-121
MW #7A	9/15/2009	3306.15		--	7.55	17.31	0.00	3298.60	9/22/2009	LF	5.410	23.230	5.740	3.220	-119
MW #7B	3/25/2009	--		--	8.14	52.58	0.00		not sampled - measurements only						
MW #7B	9/15/2009	--		--	8.84	52.53	0.00		not sampled - measurements only						
MW #8	3/25/2009	3335.31		--	11.57	20.31	0.00	3323.74	4/3/2009	LF	0.537	17.830	7.260	2.980	109
MW #8	9/15/2009	3335.31		--	11.84	20.33	0.00	3323.47	10/5/2009	LF	5.700	20.320	7.050	0.000	75
MW #9	3/25/2009	3335.18		--	15.16	21.8	0.00	3320.02	4/3/2009	LF	0.631	18.660	7.080	2.820	140
MW #9	9/15/2009	3335.18		--	12.60	20.18	0.00	3322.58	10/5/2009	LF	6.180	22.440	6.930	0.010	92

Table 2
Summary of Field Observations 2009
Navajo Refinery, Artesia, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Screened Interval	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	Product Thickness (ft)	Groundwater Elevation (ft amsl)	Date Sampled	Sampling Method	Conductivity (S/m)	Temperature (°C)	pH (SU)	DO (mg/L)	ORP (mV)
MW #10	3/25/2009	3310.30		--	4.88	18.59	0.00	3305.42	4/6/2009	LF	0.100	18.990	7.900	6.580	161
MW #10	9/14/2009	3310.30		--	6.19	18.79	0.00	3304.11	9/23/2009	LF	7.490	21.650	8.010	7.540	353
MW #11A	3/25/2009	3307.46		--	8.22	21.91	0.00	3299.24	4/2/2009	LF	3.210	17.280	7.240	2.600	-56
MW #11A	9/14/2009	3307.46		--	8.81	21.4	0.00	3298.65	9/22/2009	LF	16.400	24.600	5.440	2.490	-89
MW #11B	3/25/2009	--		--	8.08	47.22	0.00		not sampled - measurements only						
MW #11B	9/14/2009	--		--	8.67	47.18	0.00		not sampled - measurements only						
MW #12	3/26/2009	--		--	7.04	10.48	0.00		not sampled - measurements only						
MW #12	9/15/2009	--		--	9.60	10.48	0.00		not sampled - measurements only						
MW #13	3/26/2009	--		--	10.39	27	0.00		not sampled - measurements only						
MW #13	9/15/2009	--		--	11.13	20.99	0.00		not sampled - measurements only						
MW #14	3/25/2009	--		--	8.20	11.89	0.00		not sampled - measurements only						
MW #14	9/15/2009	--		--	9.38	11.89	0.00		not sampled - measurements only						
MW #15	3/25/2009	3310.93		--	9.83	21.68	0.00	3301.10	4/6/2009	LF	0.100	18.330	7.670	6.120	160
MW #15	9/14/2009	3310.93		--	10.42	21.68	0.00	3300.51	9/23/2009	LF	7.720	23.560	8.170	6.460	354
MW #16	3/26/2009	3314.77		--	9.45	21.25	0.00	3305.32	4/2/2009	LF	0.568	17.340	7.530	7.950	90
MW #16	9/14/2009	3314.77		--	8.97	21.22	0.00	3305.80	9/17/2009	LF	5.620	20.360	7.000	3.930	9
MW #17	3/25/2009	--		--	18.88	34.51	0.00		4/9/2009	SP	0.286	18.990	7.610	8.110	171
MW #17	9/14/2009	--		--	20.09	34.45	0.00		9/29/2009	SP	2.060	21.340	8.210	12.100	-91
MW #18	3/25/2009	3364.13	15 to 19	--	12.00	22.27	0.00	3352.13	4/14/2009	SP	0.351	18.510	7.080	2.200	99
MW #18	9/16/2009	3364.13	15 to 19	--	12.37	22.3	0.00	3351.76	9/24/2009	SP	3.030	24.120	7.660	5.060	-297
MW #18A	3/26/2009	3305.36		--	8.64	22.65	0.00	3296.72	4/2/2009	LF	2.440	18.240	7.590	3.950	-160
MW #18A	9/15/2009	3305.36		--	9.10	22.52	0.00	3296.26	9/22/2009	LF	13.700	22.880	5.630	6.900	-81
MW #18B	3/26/2009	--		--	8.25	50.51	0.00		not sampled - measurements only						
MW #18B	9/15/2009	--		--	8.85	50.45	0.00		not sampled - measurements only						
MW #18T	3/26/2009	--		--	8.60	50.8	0.00		not sampled - measurements only						
MW #18T	9/15/2009	--		--	9.20	50.75	0.00		not sampled - measurements only						
MW #19	3/25/2009	--		--	12.64	22.05	0.00		not sampled - measurements only						
MW #19	9/16/2009	--		--	11.53	21.97	0.00		not sampled - measurements only						
MW #20	3/26/2009	3340.69	9.5 to 23.5	--	10.41	26.85	0.00	3330.28	4/3/2009	LF	0.599	19.440	7.130	2.780	133
MW #20	9/15/2009	3340.69	9.5 to 23.5	--	13.07	26.88	0.00	3327.62	10/5/2009	LF	5.560	21.370	6.930	0.050	112
MW #21	3/26/2009	3336.39	7.5 to 22	--	13.06	25.11	0.00	3323.33	4/3/2009	LF	0.649	19.300	7.090	3.170	138
MW #21	9/15/2009	3336.39	7.5 to 22	--	13.34	25.1	0.00	3323.05	10/5/2009	LF	6.190	20.160	6.970	0.000	91
MW #22A	3/26/2009	3304.30		--	7.27	22.65	0.00	3297.03	4/6/2009	LF	0.100	17.940	7.920	6.750	167
MW #22A	9/14/2009	3304.30		--	8.43	22.6	0.00	3295.87	9/23/2009	LF	8.970	23.870	9.420	5.600	270
MW #22B	3/26/2009	--		--	7.06	54.57	0.00		not sampled - measurements only						
MW #22B	9/14/2009	--		--	8.18	54.54	0.00		not sampled - measurements only						
MW #23	3/26/2009	3365.10	15 to 20	--	13.76	19.06	0.00	3351.34	4/14/2009	SP	0.368	24.170	7.110	1.520	-351
MW #23	9/14/2009	3365.10	15 to 20	--	13.24	19.18	0.00	3351.86	9/28/2009	SP	3.390	30.290	8.420	3.700	-269

Table 2
Summary of Field Observations 2009
Navajo Refinery, Artesia, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Screened Interval	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	Product Thickness (ft)	Groundwater Elevation (ft amsl)	Date Sampled	Sampling Method	Conductivity (S/m)	Temperature (°C)	pH (SU)	DO (mg/L)	ORP (mV)
MW #24	3/26/2009	--	15 to 20	--	9.25	23.51	0.00		not sampled - measurements only						
MW #24	9/15/2009	--	15 to 20	--	9.98	23.41	0.00		not sampled - measurements only						
MW #25	3/26/2009	3310.32	15.75 to 25.25	--	11.40	28.04	0.00	3298.92	4/6/2009	LF	0.541	18.050	7.630	6.190	111
MW #25	9/14/2009	3310.32	15.25 to 24.25	--	9.28	28.05	0.00	3301.04	9/23/2009	LF	4.880	20.980	8.120	6.490	352
MW #26	3/26/2009	3314.30	15.75 to 25.25	--	10.71	27.67	0.00	3303.59	4/2/2009	LF	0.732	18.180	7.240	3.600	70
MW #26	9/14/2009	3314.30	15.25 to 24.25	--	10.95	27.55	0.00	3303.35	9/17/2009	LF	6.300	19.990	7.060	3.360	241
MW #27	3/26/2009	3320.13	18.25 to 27.75	--	17.63	30.28	0.00	3302.50	4/3/2009	LF	0.336	18.050	6.990	2.820	145
MW #27	9/14/2009	3320.13	18.25 to 27.75	--	15.31	30.25	0.00	3304.82	9/17/2009	LF	3.280	22.200	6.620	2.350	337
MW #28	3/26/2009	3363.73	25 to 30	--	24.57	34.07	0.00	3339.16	4/14/2009	SP	0.311	21.000	7.050	1.250	-346
MW #28	9/15/2009	3363.73	25 to 30	--	23.06	34.1	0.00	3340.67	9/25/2009	SP	2.480	30.980	7.720	4.670	-446
MW #29	3/25/2009	3364.55	9.75 to 19.25	--	11.68	21.82	0.00	3352.87	4/13/2009	SP	0.536	18.970	7.000	1.420	-280
MW #29	9/16/2009	3364.55	9.75 to 19.25	--	10.89	21.8	0.00	3353.66	9/24/2009	SP	5.000	24.180	8.750	4.870	-460
MW #30	3/25/2009	--		--	8.54	21.34	0.00		not sampled - measurements only						
MW #30	9/16/2009	--		--	8.92	21.35	0.00		not sampled - measurements only						
MW #39	3/25/2009	3361.07	14 to 24	9.35	9.38	25.33	0.03	3351.72	not sampled - product in well						
MW #39	9/15/2009	3361.07	14 to 24	7.10	7.11	25.34	0.01	3353.97	not sampled - product in well						
MW #40	3/25/2009	--		--	7.58	24.79	0.00		not sampled - measurements only						
MW #40	9/16/2009	--		--	5.50	24.81	0.00		not sampled - measurements only						
MW #41	3/25/2009	3361.53	14 to 19	--	8.52	22.5	0.00	3353.01	4/13/2009	SP	0.706	19.150	6.710	2.640	-225
MW #41	9/16/2009	3361.53	14 to 19	--	7.20	22.52	0.00	3354.33	9/24/2009	SP	5.610	23.900	8.230	4.950	-434
MW #42	3/25/2009	3362.55		--	9.59	23.39	0.00	3352.96	4/13/2009	SP	0.543	18.590	6.970	2.130	-348
MW #42	9/16/2009	3362.55		--	8.58	23.4	0.00	3353.97	9/24/2009	SP	5.300	23.650	8.380	3.580	-485
MW #43	3/26/2009	3362.80	15.5 to 20.5	--	11.47	21.26	0.00	3351.33	4/14/2009	SP	0.456	20.000	7.160	1.050	-376
MW #43	9/14/2009	3362.80	15.5 to 20.5	--	10.86	21.23	0.00	3351.94	9/28/2009	SP	3.830	26.220	8.560	3.580	-310
MW #45	3/25/2009	3356.92	10.5 to 15.5	--	6.40	15.8	0.00	3350.52	4/6/2009	LF	0.421	19.440	7.390	3.040	-86
MW #45	9/14/2009	3356.92	10.5 to 15.5	--	6.92	15.82	0.00	3350.00	9/24/2009	LF	4.250	27.330	8.250	4.980	-380
MW #46	3/25/2009	3356.92	12 to 17	--	6.06	19.81	0.00	3350.86	4/6/2009	LF	No Sample - Casing Broken				
MW #46	9/14/2009	3356.92	12 to 17	--	8.19	19.83	0.00	3348.73	No Sample - Casing Broken						
MW #48	3/27/2009	3366.14		20.31	21.04	32.39	0.73	3345.73	not sampled - product in well						
MW #48	9/15/2009	3366.14		18.07	18.60	32.38	0.53	3348.00	not sampled - product in well						
MW #49	3/26/2009	3362.93		--	11.92	33.08	0.00	3351.01	4/14/2009		0.381	21.460	6.960	1.620	-373
MW #49	9/16/2009	3362.93		--	10.78	33.03	0.00	3352.15							
MW #52	3/26/2009	3371.67		--	21.11	34.72	0.00	3350.56	4/8/2009	SP	0.379	20.270	7.080	2.830	30
MW #52	9/16/2009	3371.67		--	18.52	34.46	0.00	3353.15	9/30/2009	SP	Horiba meter broken				
MW #50	3/25/2009	3374.21		--	17.28	28.3	0.00	3356.93	4/9/2009	SP	0.336	20.770	7.180	2.600	-173
MW #50	9/14/2009	3374.21		--	17.10	28.28	0.00	3357.11	9/28/2009	SP	2.890	24.980	8.680	3.720	-281
MW #53	3/26/2009	3367.87		--	13.32	23.87	0.00	3354.55	4/8/2009	SP	0.302	20.530	7.210	2.290	79
MW #53	9/16/2009	3367.87		--	13.91	23.87	0.00	3353.96	10/5/2009	SP	2.820	22.910	6.950	0.120	62

Table 2
Summary of Field Observations 2009
Navajo Refinery, Artesia, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Screened Interval	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	Product Thickness (ft)	Groundwater Elevation (ft amsl)	Date Sampled	Sampling Method	Conductivity (S/m)	Temperature (°C)	pH (SU)	DO (mg/L)	ORP (mV)
MW #54A	3/26/2009	3365.66		--	12.87	31.33	0.00	3352.79	4/8/2009	SP	0.310	19.290	6.740	2.570	-4
MW #54A	9/16/2009	3365.66		--	13.38	31.29	0.00	3352.28	10/5/2009	SP	2.890	23.290	6.490	0.220	42
MW #54B	3/26/2009	--		--	12.89	47.08	0.00		not sampled - measurements only						
MW #54B	9/16/2009	--		--	13.36	47.45	0.00		not sampled - measurements only						
MW #55	3/25/2009	3363.97		--	11.86	26.82	0.00	3352.11	4/10/2009	SP	0.492	19.550	7.200	2.640	-194
MW #55	9/16/2009	3363.97		--	11.79	26.82	0.00	3352.18	9/24/2009	SP	5.050	24.020	7.680	4.620	-297
MW #56	3/25/2009	3362.05		--	11.54	26.38	0.00	3350.51	4/10/2009	SP	0.482	19.880	7.020	2.700	-77
MW #56	9/16/2009	3362.05		--	11.75	26.1	0.00	3350.30	9/24/2009	SP	4.510	24.680	7.510	5.210	-304
MW #57	3/26/2009	--	Not Measured - Pump in Well						not sampled - product in well						
MW #57		--	Not Measured - Pump in Well						not sampled - product in well						
MW #58	3/26/2009	--		--	22.62	33.15	0.00		4/8/2009	SP	0.280	20.260	6.710	1.930	-72
MW #58	9/16/2009	--		--	18.49	33.14	0.00		9/30/2009	SP	Horiba meter broken				
MW #59	3/25/2009	--		--	6.44	29.27	0.00		not sampled - measurements only						
MW #59	9/16/2009	--		--	4.00	29.67	0.00		not sampled - measurements only						
MW #60	3/25/2009	--		--	6.81	34.17	0.00		not sampled - measurements only						
MW #60	9/16/2009	--		--	5.20	34.3	0.00		not sampled - measurements only						
MW #61	3/27/2009	3362.42	14 to 29	--	12.85	29.02	0.00	3349.57	4/9/2009	SP	0.633	23.290	7.010	2.120	-368
MW #61	10/1/2009	3362.42	14 to 29	--	12.60	29.1	0.00	3349.82	10/1/2009	SP	5.140	26.540	6.430	0.000	-383
MW #62	3/26/2009	--	14 to 29	--	16.27	32.93	0.00		4/14/2009	SP	0.257	21.600	7.000	1.770	-373
MW #62	9/14/2009	--	14 to 29	--	16.11	31.94	0.00		10/1/2009	SP	2.320	27.210	6.380	0.130	-358
MW #63	Inaccessible in March-April 2009 due to heavy equipment and temporary storage								not sampled						
MW #63	Inaccessible in September 2009 due to heavy equipment and temporary storage								not sampled						
MW #64	3/26/2009	--	15 to 30	20.91	22.45	34.19	1.54		not sampled - product in well						
MW #64	9/15/2009	--	15 to 30	19.54	21.34	34.16	1.80		not sampled - product in well						
MW #65	3/26/2009	--	14.5 to 29.5	17.34	20.00	29.37	2.66		not sampled - product in well						
MW #65	9/15/2009	--	14.5 to 29.5	16.33	16.48	29.35	0.15		not sampled - product in well						
MW #66	3/26/2009	--	14.6 to 29.6	--	18.18	29.67	0.00		4/14/2009	SP	0.236	20.490	7.070	3.520	-223
MW #66	9/16/2009	--	14.6 to 29.6	--	16.48	29.67	0.00		9/25/2009	SP	1.910	25.070	8.020	4.340	-406
MW #67	3/25/2009	--	12 to 27	--	11.30	27.17	0.00		4/14/2009	SP	0.267	20.570	7.130	1.620	-283
MW #67	9/16/2009	--	12 to 27	--	11.34	27.18	0.00		10/1/2009	SP	2.500	24.760	6.520	0.000	-321
MW #68	3/25/2009	3334.29		--	21.67	26.76	0.00	3312.62	4/3/2009	LF	0.304	19.600	7.030	3.940	137
MW #68	9/16/2009	3334.29		--	20.87	26.74	0.00	3313.42	9/29/2009	LF	3.670	23.120	7.590	8.930	-95
MW #69	3/26/2009	3334.29		--	7.91	10.9	0.00	3326.38	not sampled - measurements only						
MW #69	9/16/2009	3334.29		--	8.28	10.88	0.00	3326.01	not sampled - measurements only						
MW #70	3/26/2009	3303.09		--	7.30	22.01	0.00	3295.79	4/2/2009	LF	0.678	17.030	7.260	4.140	23
MW #70	9/16/2009	3303.09		--	8.33	22.03	0.00	3294.76	9/22/2009	LF	3.560	22.470	5.480	3.250	-69
MW #71	3/26/2009	3303.09		--	12.32	20.21	0.00	3290.77	not sampled - measurements only						
MW #71	9/16/2009	3303.09		--	17.45	21.78	0.00	3285.64	not sampled - measurements only						

Table 2
Summary of Field Observations 2009
Navajo Refinery, Artesia, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Screened Interval	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	Product Thickness (ft)	Groundwater Elevation (ft amsl)	Date Sampled	Sampling Method	Conductivity (S/m)	Temperature (°C)	pH (SU)	DO (mg/L)	ORP (mV)
MW #72	3/26/2009	3308.04	2 to 12	--	6.35	13.88	0.00	3301.69	3/30/2009	LF	1.810	16.260	7.180	10.900	-121
MW #72	9/14/2009	3308.04	2 to 12	--	6.97	13.88	0.00	3301.07	9/18/2009	LF	18.200	23.130	6.920	2.000	-137
MW #73	3/25/2009	3309.65	2 to 17	--	8.63	19.61	0.00	3301.02	3/30/2009	LF	1.520	16.690	7.420	6.940	-110
MW #73	9/14/2009	3309.65	2 to 17	--	8.80	19.55	0.00	3300.85	9/18/2009	LF	14.800	20.070	7.290	3.920	138
MW #74	3/25/2009	3309.44	2 to 17	--	8.25	20.13	0.00	3301.19	3/30/2009	LF	1.370	18.200	7.350	7.680	-2
MW #74	9/14/2009	3309.44	2 to 17	--	9.05	20.11	0.00	3300.39	9/18/2009	LF	13.800	21.970	7.010	3.140	26
MW #75	3/25/2009	3309.63	3 to 18	--	8.38	23.64	0.00	3301.25	3/30/2009	LF	0.928	19.120	7.430	5.890	-95
MW #75	9/14/2009	3309.63	3 to 18	--	9.27	23.64	0.00	3300.36	9/18/2009	LF	10.500	21.420	7.060	2.430	-177
MW #76	3/25/2009	3311.13	3 to 18	--	10.00	20.28	0.00	3301.13	3/31/2009	LF	0.795	18.490	7.350	2.420	-82
MW #76	9/14/2009	3311.13	3 to 18	--	10.85	20.27	0.00	3300.28	9/17/2009	LF	8.100	22.750	7.020	2.710	-199
MW #77	3/25/2009	3309.36	3 to 18	--	8.24	20.49	0.00	3301.12	3/31/2009	LF	0.921	16.240	7.170	2.560	-90
MW #77	9/14/2009	3309.36	3 to 18	--	9.11	20.45	0.00	3300.25	9/17/2009	LF	9.300	22.440	6.930	2.540	-169
MW #78	3/25/2009	3309.41	2 to 17	--	8.26	19.55	0.00	3301.15	3/31/2009	LF	0.728	16.670	7.230	2.240	-75
MW #78	9/14/2009	3309.41	2 to 17	--	9.13	19.53	0.00	3300.28	9/17/2009	LF	7.120	22.560	7.120	3.210	-160
MW #79	3/25/2009	3310.99	2 to 17	--	8.96	19.23	0.00	3302.03	3/31/2009	LF	1.170	16.150	7.410	3.180	41
MW #79	9/14/2009	3310.99	2 to 17	--	9.66	19.21	0.00	3301.33	9/18/2009	LF	12.200	21.020	7.070	1.960	-55
MW #80	3/25/2009	3310.37	2 to 17	--	7.65	19.83	0.00	3302.72	3/31/2009	LF	7.590	17.030	7.370	3.360	-26
MW #80	9/14/2009	3310.37	2 to 17	--	8.30	20.82	0.00	3302.07	9/18/2009	LF	7.800	21.410	7.100	2.010	-104
MW #81	3/25/2009	3311.92	2 to 17	--	9.29	19.63	0.00	3302.63	3/31/2009	LF	0.862	17.750	7.280	2.930	71
MW #81	9/14/2009	3311.92	2 to 17	--	9.90	18.61	0.00	3302.02	9/18/2009	LF	8.150	22.190	7.030	2.210	-11
MW #82	3/25/2009	3310.30	2 to 17	--	8.37	20	0.00	3301.93	3/31/2009	LF	0.962	18.420	7.350	2.770	-93
MW #82	9/14/2009	3310.30	2 to 17	--	9.11	19.98	0.00	3301.19	9/21/2009	LF	11.400	23.740	7.140	1.790	-168
MW #83	3/25/2009	3309.50	2 to 17	--	8.21	19.89	0.00	3301.29	3/31/2009	LF	0.763	17.490	7.270	2.940	-58
MW #83	9/14/2009	3309.50	2 to 17	--	9.05	19.87	0.00	3300.45	9/21/2009	LF	8.160	24.520	6.930	2.200	-3
MW #84	3/25/2009	3311.17	2 to 17	--	9.42	20.47	0.00	3301.75	3/31/2009	LF	1.210	18.700	7.370	3.010	31
MW #84	9/14/2009	3311.17	2 to 17	--	9.37	20.44	0.00	3301.80	9/21/2009	LF	12.600	23.020	7.060	2.090	-115
MW #85	3/25/2009	3310.66	3 to 18	8.63	8.87	20.25	0.24	3302.00	not sampled - product in well						
MW #85	9/14/2009	3310.66	3 to 18	9.21	9.91	20.27	0.70	3301.36	not sampled - product in well						
MW #86	3/25/2009	3310.65	2 to 17	8.17	8.60	19.15	0.43	3302.42	not sampled - product in well						
MW #86	9/14/2009	3310.65	2 to 17	8.80	10.65	19.18	1.85	3301.61	not sampled - product in well						
MW #87	3/25/2009	3310.65	2 to 17	--	7.69	20.35	0.00	3302.96	4/6/2009	LF	0.100	18.700	7.590	6.550	170
MW #87	9/15/2009	3310.65	2 to 17	--	8.58	20.28	0.00	3302.07	9/22/2009	LF	9.550	23.330	5.790	10.560	-41
MW #88	3/25/2009	3308.02	3 to 18	--	8.12	20.25	0.00	3299.90	4/6/2009	LF	0.200	17.650	7.910	6.910	177
MW #88	9/15/2009	3308.02	3 to 18	--	9.31	20.27	0.00	3298.71	9/23/2009	LF	7.510	22.870	8.000	6.630	323
MW #89	3/25/2009	3317.87	2 to 17	--	12.15	20.24	0.00	3305.72	4/2/2009	LF	0.366	17.800	7.140	3.280	-60
MW #89	9/15/2009	3317.87	2 to 17	--	10.81	20.2	0.00	3307.06	9/17/2009	LF	3.790	20.990	6.750	5.770	99
MW #90	3/25/2009	3368.75	5 to 20	--	13.22	22.65	0.00	3355.53	4/15/2009	SP	0.454	19.210	7.130	2.010	-378
MW #90	9/14/2009	3368.75	5 to 20	--	13.19	22.7	0.00	3355.56	10/1/2009	SP	3.800	22.250	6.820	0.040	-367

Table 2
Summary of Field Observations 2009
Navajo Refinery, Artesia, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Screened Interval	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	Product Thickness (ft)	Groundwater Elevation (ft amsl)	Date Sampled	Sampling Method	Conductivity (S/m)	Temperature (°C)	pH (SU)	DO (mg/L)	ORP (mV)
MW #91	3/25/2009	3367.10	7 to 22	--	12.26	25.25	0.00	3354.84	4/15/2009	SP	0.270	20.510	6.910	1.490	-425
MW #91	9/14/2009	3367.10	7 to 22	--	12.19	25.26	0.00	3354.91	10/1/2009	SP	2.570	23.860	6.440	0.000	-381
MW #92	3/25/2009	3368.00	5 to 20	--	13.11	22.57	0.00	3354.89	4/15/2009	SP	0.381	19.600	6.940	1.850	-342
MW #92	9/14/2009	3368.00	5 to 20	--	13.28	22.58	0.00	3354.72	10/1/2009	SP	3.830	23.090	6.510	0.000	-331
MW #93	3/26/2009	3363.18	5 to 20	--	8.36	20.09	0.00	3354.82	4/15/2009	SP	0.273	17.790	7.230	3.050	-388
MW #93	9/14/2009	3363.18	5 to 20	--	8.84	20.1	0.00	3354.34	10/1/2009	SP	2.210	24.790	6.510	2.170	-344
MW #94	3/25/2009	3367.25	5 to 20	13.25	16.95	23.27	3.70	3353.51	not sampled - product in well						
MW #94	9/15/2009	3367.25	5 to 20	13.22	16.99	23.8	3.77	3353.54	not sampled - product in well						
MW #95	3/25/2009	3368.05	7 to 22	--	14.04	25.31	0.00	3354.01	4/15/2009	SP	0.292	20.480	7.030	1.700	-319
MW #95	9/14/2009	3368.05	7 to 22	--	14.12	25.31	0.00	3353.93	10/1/2009	SP	2.570	24.310	6.700	0.000	-317
MW #96	3/25/2009	3368.30	7 to 22	--	13.27	25.46	0.00	3355.03	4/15/2009	SP	0.290	19.720	7.120	1.670	-383
MW #96	9/14/2009	3368.30	7 to 22	--	13.14	25.42	0.00	3355.16	10/1/2009	SP	2.540	23.260	6.680	0.000	-373
MW #97	3/26/2009	3365.31	8 to 23	10.68	12.74	21.97	2.06	3354.36	not sampled - product in well						
MW #97	9/15/2009	3365.31	8 to 23	10.54	13.81	21.94	3.27	3354.34	not sampled - product in well						
MW #98	3/26/2009	3365.08	13 to 23	--	8.74	26.69	0.00	3356.34	4/15/2009	SP	0.353	20.960	7.190	1.210	-392
MW #98	9/14/2009	3365.08	13 to 23	--	9.22	26.66	0.00	3355.86	9/28/2009	SP	3.880	26.020	9.220	8.990	-361
MW #99	3/26/2009	3363.30	12 to 27	--	19.00	28.25	0.00	3344.30	4/15/2009	SP	0.244	20.590	6.910	2.220	-311
MW #99	9/14/2009	3363.30	12 to 27	--	17.02	28.26	0.00	3346.28	9/28/2009	SP	2.310	23.930	8.920	3.660	-315
MW#100	3/26/2009	3363.68	9 to 24	18.77	18.79	30.5	0.02	3344.91	not sampled - product in well						
MW#100	9/15/2009	3363.68	9 to 24	17.32	17.37	30.48	0.05	3346.35	not sampled - product in well						
MW#101	3/26/2009	3367.98	8 to 23	--	16.20	26.68	0.00	3351.78	4/15/2009	SP	0.285	20.920	6.940	1.650	-374
MW#101	9/14/2009	3367.98	8 to 23	--	15.21	26.66	0.00	3352.77	9/28/2009	SP	2.110	24.870	7.950	5.460	-238
MW#102	3/26/2009	3371.37	12 to 27	16.55	19.98	26.4	3.43	3354.37	not sampled - product in well						
MW#102	9/15/2009	3371.37	12 to 27	16.34	17.35	26.44	1.01	3354.90	not sampled - product in well						
MW#103	3/26/2009	--	7 to 22	--	18.55	25.09	0.00		3/16/2009	field measurements not collected					
MW#103	9/14/2009	--	7 to 22	--	17.92	25.1	0.00		9/28/2009	SP	4.960	27.210	9.430	3.370	-277
MW#104	3/26/2009	--	3 to 18	--	13.12	21.83	0.00		3/16/2009	field measurements not collected					
MW#104	9/14/2009	--	3 to 18	--	12.17	21.82	0.00		9/28/2009	SP	1.670	23.630	9.110	4.320	-270
MW#105	3/25/2009	--	8 to 18	11.83	12.33	17.15	0.50		not sampled - measurements only						
MW#105	9/15/2009	--	8 to 18	11.89	12.08	17.14	0.19		not sampled - measurements only						
MW#106	3/25/2009	--	0 to 11	--	9.18	22.69	0.00		not sampled - measurements only						
MW#106	9/14/2009	--	0 to 11	--	8.31	22.7	0.00		9/28/2009	SP	3.730	26.360	8.460	3.640	-336
MW#107	3/25/2009	--	12 to 22	--	13.60	18.96	0.00		not sampled - measurements only						
MW#107	9/14/2009	--	12 to 22	--	12.26	18.97	0.00		9/28/2009	SP	1.920	24.980	8.170	4.190	-242
MW#108	9/14/2009	--	9 to 24	--	14.01	27.35	0.00		10/1/2009	SP	2.870	22.890	6.710	0.010	-304
NCL #31	3/25/2009	--	13 to 18	--	12.29	20.09	0.00		not sampled - measurements only						
NCL #31	9/16/2009	--	13 to 18	--	11.42	20.1	0.00		not sampled - measurements only						
NCL #32	3/25/2009	3363.72	17 to 22	--	10.39	18.08	0.00	3353.33	4/10/2009	SP	0.313	19.250	7.040	2.410	-85
NCL #32	9/16/2009	3363.72	17 to 22	--	2.01	17.8	0.00	3361.71	9/24/2009	SP	1.500	22.540	9.880	3.930	-121

Table 2
Summary of Field Observations 2009
Navajo Refinery, Artesia, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Screened Interval	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	Product Thickness (ft)	Groundwater Elevation (ft amsl)	Date Sampled	Sampling Method	Conductivity (S/m)	Temperature (°C)	pH (SU)	DO (mg/L)	ORP (mV)
NCL #33	3/25/2009	3364.74	13 to 18	--	11.21	20.48	0.00	3353.53	4/10/2009	SP	0.389	19.640	7.440	2.950	-246
NCL #33	9/16/2009	3364.74	13 to 18	--	11.39	20.49	0.00	3353.35	9/24/2009	SP	3.360	23.400	8.540	3.720	35
NCL #34	3/25/2009	3364.74	16 to 21	--	11.98	19.26	0.00	3352.76	4/10/2009	SP	0.296	21.040	6.910	2.020	-385
NCL #34	9/16/2009	3364.74	16 to 21	--	11.87	19.24	0.00	3352.87	9/24/2009	SP	2.450	24.300	9.160	3.610	-144
NCL #44	3/25/2009	3363.23		--	10.58	21.58	0.00	3352.65	4/10/2009	SP	0.247	19.530	6.790	2.520	-128
NCL #44	9/16/2009	3363.23		--	10.74	21.58	0.00	3352.49	9/24/2009	SP	2.070	22.550	9.810	5.400	-410
NCL #49	3/25/2009	3369.87		--	17.23	32.23	0.00	3352.64	4/8/2009	SP	0.383	20.050	7.170	4.110	106
NCL #49	9/16/2009	3369.87		--	17.70	32.18	0.00	3352.17	10/5/2009	SP	3.510	22.200	6.920	0.700	64
NP #1	3/25/2009	3341.64		--	15.02	21.87	0.00	3326.62	4/8/2009	SP	0.613	16.540	7.160	4.570	508
NP #1	9/15/2009	3341.64		--	15.94	21.83	0.00	3325.70	9/30/2009	SP	Horiba meter broken				
NP #2	3/26/2009	3342.09	9.5 to 18.5	--	12.14	21.47	0.00	3329.95	4/8/2009	SP	0.604	17.220	7.180	5.430	176
NP #2	9/15/2009	3342.09	9.5 to 18.5	--	14.62	21.47	0.00	3327.47	9/30/2009	SP	Horiba meter broken				
NP #3	3/26/2009	3342.24	9.5 to 18.5	--	12.62	21.9	0.00	3329.62	4/3/2009	LF	0.460	17.180	7.190	3.360	103
NP #3	9/15/2009	3342.24	9.5 to 18.5	--	15.46	21.88	0.00	3326.78	10/5/2009	LF	3.730	19.970	6.860	0.850	123
NP #4	3/26/2009	3345.01	24.5 to 33.5	--	20.41	37	0.00		not sampled - measurements only						
NP #4	9/15/2009	3345.01	24.5 to 33.5	--	24.90	36.97	0.00		not sampled - measurements only						
NP #5	3/25/2009	3353.41		--	11.50	25.11	0.00	3341.91	4/8/2009	SP	0.733	17.080	7.390	3.480	116
NP #5	9/16/2009	3353.41		--	12.23	25.12	0.00	3341.18	10/5/2009	SP	6.570	19.560	7.110	0.030	-72
NP #6	3/25/2009	3336.96		--	13.05	20.3	0.00	3323.91	4/8/2009	SP	0.692	16.700	7.110	4.510	341
NP #6	9/15/2009	3336.96		--	12.75	20.28	0.00	3324.21	10/5/2009	SP	6.800	19.310	6.860	1.560	113
NP #7	3/26/2009	Well has been destroyed by landowner - cannot sample													
NP #7		Well has been destroyed by landowner - cannot sample													
NP #8	3/25/2009	--		--	11.09	15.14	0.00		not sampled - measurements only						
NP #8	9/14/2009	--		--		4.1	0.00		not sampled - measurements only						
NP #9	3/26/2009	3359.49		--	10.47	25.89	0.00	3349.02	4/10/2009	SP	0.546	16.840	7.330	3.130	-211
NP #9	9/16/2009	3359.49		--	10.72	25.85	0.00	3348.77	9/24/2009	SP	5.020	20.700	8.380	6.260	-288
OCD #1R	3/26/2009	3311.11		--	10.27	23.85	0.00	3300.84	4/1/2009	LF	1.070	18.350	7.370	3.250	-68
OCD #1R	9/14/2009	3311.11		--	10.64	23.83	0.00	3300.47	9/21/2009	LF	6.350		7.160	0.880	-100
OCD #2A	3/26/2009	3310.99		--	10.02	27.51	0.00	3300.97	4/1/2009	LF	1.190	18.860	7.420	3.630	-29
OCD #2A	9/14/2009	3310.99		--	10.65	27.5	0.00	3300.34	9/22/2009	LF	4.450	21.100	5.650	4.270	-72
OCD #2B	3/26/2009	--		--	10.33	50.38	0.00		not sampled - measurements only						
OCD #2B	9/14/2009	--		--	11.11	50.3	0.00		not sampled - measurements only						
OCD #3	3/26/2009	3311.19		--	10.40	25.4	0.00	3300.79	4/1/2009	LF	0.540	19.410	7.530	3.090	-26
OCD #3	9/14/2009	3311.19		--	10.96	25.42	0.00	3300.23	9/22/2009	LF	2.880	26.110	5.790	2.630	-66
OCD #4	3/26/2009	3312.23		--	9.71	25.38	0.00	3302.52	4/1/2009	LF	1.860	19.910	7.430	2.900	-42
OCD #4	9/14/2009	3312.23		--	10.23	25.38	0.00	3302.00	9/22/2009	LF	8.490	24.920	5.740	2.590	-101
OCD #5	3/26/2009	3307.82		--	7.94	25.42	0.00	3299.88	4/1/2009	LF	2.000	18.710	7.460	2.900	-59
OCD #5	9/14/2009	3307.82		--	8.49	25.37	0.00	3299.33	9/22/2009	LF	9.030	23.710	5.640	2.580	-95
OCD #6	3/26/2009	3309.93		--	7.95	26.75	0.00	3301.98	4/1/2009	LF	1.810	17.480	7.500	3.150	-119
OCD #6	9/14/2009	3309.93		--	8.63	26.73	0.00	3301.30	9/21/2009	LF	18.500	22.960	7.170	1.780	-125
OCD #7A	3/26/2009	3307.05	5.5 to 19.5	--	6.62	21.27	0.00	3300.43	4/1/2009	LF	1.370	17.580	7.330	3.410	-93
OCD #7A	9/14/2009	3307.05	5.5 to 19.5	--	7.14	21.22	0.00	3299.91	9/21/2009	LF	14.300	24.880	7.140	3.440	-116

Table 2
Summary of Field Observations 2009
Navajo Refinery, Artesia, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Screened Interval	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	Product Thickness (ft)	Groundwater Elevation (ft amsl)	Date Sampled	Sampling Method	Conductivity (S/m)	Temperature (°C)	pH (SU)	DO (mg/L)	ORP (mV)
OCD #7B	3/26/2009	3306.92	43.5 to 52.5	--	7.46	56.8	0.00		not sampled - measurements only						
OCD #7B	9/14/2009	3306.92	43.5 to 52.5	--	8.35	56.73	0.00		not sampled - measurements only						
OCD #7C	3/26/2009	3306.92	60.25 to 69.75	--	7.91	71.95	0.00		not sampled - measurements only						
OCD #7C	9/14/2009	3306.92	60.25 to 69.75	--	8.70	79.97	0.00		not sampled - measurements only						
OCD #8A	3/26/2009	3306.68		--	9.35	21.68	0.00	3297.33	4/2/2009	LF	1.580	16.500	7.420	2.480	-112
OCD #8A	9/14/2009	3306.68		--	10.11	21.68	0.00	3296.57	9/22/2009	LF	7.560	25.570	5.480	2.640	-119
OCD #8B	3/26/2009	--		--	7.80	56.5	0.00		not sampled - measurements only						
OCD #8B	9/14/2009	--		--	8.65	56.45	0.00		not sampled - measurements only						
RA #313	3/26/2009	Well rig onsite, pump removed - no measurement or sample possible													
RA #313		--		--	--	--	--	--	10/5/2009	SP	No Measurements				
RA #314	3/26/2009	Not Measured - Irrigation Well							Well inoperable, electrical box removed (no sample possible)						
RA #314	9/30/2009	Not Measured - Irrigation Well							Well inoperable, electrical box removed (no sample possible)						
RA #3156		Not Measured - Irrigation Well							4/16/2009	SP	0.368	15.700	7.830	10.970	18
RA #3156	9/30/2009	Not Measured - Irrigation Well							9/30/2009	SP	No Measurements				
RA #3353		Not Measured - Irrigation Well							Well inoperable, no electricity, wires cut (no sample)						
RA #3353		Not Measured - Irrigation Well							Well inoperable, no electricity, wires cut (no sample)						
RA #3723		Well destroyed, no sample or measurement possible													
RA #3723		Well destroyed, no sample or measurement possible													
RA #4196		Not Measured - Irrigation Well							4/16/2009	SP	0.517	22.570	7.840	6.920	-173
RA #4196	9/30/2009	Not Measured - Irrigation Well							9/30/2009	SP	No Measurements				
RA #4798		Not Measured - Irrigation Well							4/16/2009	SP	0.203	18.960	7.950	7.920	-114
RA #4798	9/30/2009	Not Measured - Irrigation Well							9/30/2009	SP	No Measurements				
RW #1	3/25/2009	--		--	11.54	18.56	0.00		4/16/2009	SP	0.389	22.790	7.060	4.380	-354
RW #1	9/15/2009	--		17.65	17.66	18.55	0.01		10/1/2009	SP	3.170	24.280	6.920	2.250	-359
RW #2	3/25/2009	--		17.83	17.88	18.52	0.05		not sampled - measurements only						
RW #2	9/15/2009	--		17.88	17.92	19.25	0.04		not sampled - measurements only						
RW #3	3/26/2009	Backfilled - Inaccessible													
RW #3	9/14/2009	Backfilled - Inaccessible													
RW #4	3/26/2009	--		--	16.71	20.96	0.00		not sampled - measurements only						
RW #4	9/15/2009	--		--	16.13	21.02	0.00		not sampled - measurements only						
RW #5	3/26/2009	--		17.17	17.48	17.48	0.31		not sampled - measurements only						
RW #5	9/15/2009	--		15.97	16.16	17.2	0.19		not sampled - measurements only						
RW #6	3/26/2009	--		--	16.79	16.86	0.00		not sampled - measurements only						
RW #6	9/14.2009	--		16.78	16.85	16.87	0.07		not sampled - measurements only						
RW #7	3/25/2009	--		--	12.63	20.79	0.00		not sampled - measurements only						
RW #7	9/14/2009	--		--	12.10	20.77	0.00		not sampled - measurements only						
RW #8	3/25/2009	--		14.37	14.38	18.43	0.01		not sampled - measurements only						
RW #8	9/14/2009	--		15.38	15.39	16.35	0.01		not sampled - measurements only						
RW #9	3/25/2009	--		--	10.48	21.87	0.00		not sampled - measurements only						
RW #9	9/14/2009	--		--	9.22	21.79	0.00		not sampled - measurements only						
RW #10	3/25/2009	--		--	11.29	24.02	0.00		not sampled - measurements only						
RW #10	9/14/2009	--		--	8.79	23.86	0.00		not sampled - measurements only						

Table 2
Summary of Field Observations 2009
Navajo Refinery, Artesia, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Screened Interval	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Total Depth (ft btoc)	Product Thickness (ft)	Groundwater Elevation (ft amsl)	Date Sampled	Sampling Method	Conductivity (S/m)	Temperature (°C)	pH (SU)	DO (mg/L)	ORP (mV)
RW #11	3/27/2009	--		--	DRY	NM	0.00		not sampled - measurements only						
RW #11	9/16/2009	--		--	21.16	23.02	0.00		not sampled - measurements only						
RW #12	3/27/2009	--		--	DRY	22.89	0.00		not sampled - measurements only						
RW #12	9/15/2009	--		19.00	19.02	22.89	0.02		not sampled - measurements only						
RW #13	3/27/2009	--		22.90	23.00	25.12	0.10		not sampled - measurements only						
RW #13	9/15/2009	--		18.60	19.54	25.12	0.94		not sampled - measurements only						
RW #14	3/27/2009	--		19.85	19.95	23.87	0.10		not sampled - measurements only						
RW #14	9/15/2009	--		16.37	16.89	23.6	0.52		not sampled - measurements only						
RW #15	3/27/2009	--		18.07	18.13	22.24	0.06		not sampled - measurements only						
RW #15	9/15/2009	--		15.90	17.77	22.04	1.87		not sampled - measurements only						
RW #16	3/25/2009	--		--	12.67	17.56	0.00		not sampled - measurements only						
RW #16	9/14/2009	--		--	12.42	17.6	0.00		not sampled - measurements only						
RW #17	3/25/2009	--		--	11.55	16.03	0.00		not sampled - measurements only						
RW #17	9/14/2009	--		--	11.47	16.28	0.00		not sampled - measurements only						
RW #18	3/26/2009	--		--	10.75	18.75	0.00		4/7/2009	SP	0.618	16.720	7.200	2.070	72
RW #18	9/15/2009	--		--	12.49	18.82	0.00		9/29/2009	SP	5.340	21.800	7.750	4.160	-172
TEL #1	3/26/2009	3361.34	13 to 23	--	8.76	26.9	0.00	3352.58	4/16/2009	SP	0.372	29.370	7.290	2.330	-232
TEL #1	9/15/2009	3361.34	13 to 23	--	6.64	26.9	0.00	3354.70	9/25/2009	SP	3.370	23.000	8.150	4.190	-410
TEL #2	3/26/2009	3362.23	13 to 23	--	9.58	27.08	0.00	3352.65	4/16/2009	SP	0.422	19.270	6.980	2.200	-360
TEL #2	9/15/2009	3362.23	13 to 23	--	7.57	27.08	0.00	3354.66	9/25/2009	SP	3.790	23.300	8.450	3.940	-486
TEL #3	3/26/2009	3361.45	13 to 23	--	8.86	27.17	0.00	3352.59	4/16/2009	SP	0.423	18.760	6.840	1.970	-338
TEL #3	9/15/2009	3361.45	13 to 23	--	6.90	27.18	0.00	3354.55	9/25/2009	SP	3.040	23.480	8.600	4.220	-469
TEL #4	3/26/2009	3363.31	13 to 23	--	9.35	26.17	0.00	3353.96	4/16/2009	SP	0.377	19.600	6.860	2.630	-286
TEL #4	9/15/2009	3363.31	13 to 23	--	8.97	27.17	0.00	3354.34	9/25/2009	SP	4.360	23.290	13.900	3.390	-471
UG #1	3/26/2009	3361.71	8 to 23	--	15.69	24.2	0.00	3346.02	4/9/2009	SP	0.401	21.450	7.590	6.730	135
UG #1	9/16/2009	3361.71	8 to 23	--	16.01	24.17	0.00	3345.70	10/2/2009	SP	3.620	22.680	7.000	0.120	15
UG #2	3/26/2009	3369.07	15 to 30	--	20.65	29.25	0.00	3348.42	4/9/2009	SP	0.252	21.540	7.670	5.850	278
UG #2	9/16/2009	3369.07	15 to 30	--	19.88	29.23	0.00	3349.19	10/2/2009	SP	2.190	20.740	7.100	0.460	-5
UG #3R	3/27/2009	3372.84	17 to 37	--	27.51	38.58	0.00	3345.33	4/9/2009	SP	0.309	20.510	7.200	2.870	157
UG #3R	9/14/2009	3372.84	17 to 37	--	29.14	38.54	0.00	3343.70	10/2/2009	SP	2.810	20.560	6.930	1.100	38

-- = Product not detected
DO = Dissolved oxygen
ft = feet
ft amsl = Feet above mean sea level
ft btoc = Feet below top of casing
LF = low flow sampling methodology
NM = Not measured
NR = Not recorded
NS = Not surveyed
ORP = Oxidation-reduction potential
P = Not Sampled; Well Contained Product
S/m = Seimens per meter
SP = well sampled using a submersible pump

Table 3
RO System Reject Water Analytical Data
Navajo Refinery, Artesia, New Mexico

	Date	Metals (mg/L)																				
		Aluminum	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Mag nesium	Man ganese	Molyb denum	Nickel	Potas sium	Selenium	Silver	Sodium	Vanadium	Zinc
		WQCC 5	MCL 0.01	WQCC 1	MCL 0.004	WQCC 0.75	MCL 0.005	–	WQCC 0.05	WQCC 0.05	WQCC 1	WQCC 1	WQCC 0.05	-	WQCC 0.2	WQCC 1	WQCC 0.2	-	WQCC 0.05	WQCC 0.05	-	EPA 0.18	WQCC 10
Reverse Osmosis Reject Water	12/27/2004	<0.01	0.00725	0.0669	<0.002	0.071	<0.002	628	<0.005	<0.005	0.00586	<0.2	<0.005	198	<0.005	0.00793	<0.005	4.11	0.01	<0.005	131	0.0104	0.0259
	1/16/2007	<0.01	<0.005	0.0638	<0.002	0.0568	<0.002	694	<0.005	<0.005	<0.005	<0.2	<0.005	233	<0.005	0.00744	<0.005	4.48	0.0095	<0.005	234	0.00991	0.00839
	2/22/2007	<0.01	0.00941	0.0681	<0.002	0.0643	<0.002	735	<0.005	<0.005	<0.005	<0.2	<0.005	246	<0.005	0.00813	<0.005	4.49	0.00761	<0.005	320	0.0102	0.00734
	7/5/2007	0.0168	<0.005	0.0553	<0.002	0.0644	<0.002	600	<0.005	<0.005	<0.005	<0.2	<0.005	176	<0.005	0.00882	<0.005	3.47	0.00763	<0.005	167	0.00974	0.00749
	12/14/2007	<0.01	<0.005	0.0704	<0.002	0.0752	<0.002	594	<0.005	<0.005	<0.005	<0.2	<0.005	208	<0.005	0.00952	<0.005	4.32	0.00793	<0.005	218	0.0104	0.00677
	2/7/2008	<0.01	<0.005	0.0564	<0.002	0.0773	<0.002	548	<0.005	<0.005	<0.005	<0.2	<0.005	179	<0.005	0.00639	<0.005	3.34	0.0058	<0.005	206	0.00771	<0.005
	5/22/2008	<0.01	<0.005	0.0602	<0.002	0.0819	<0.002	562	<0.005	<0.005	<0.005	<0.2	<0.005	180	<0.005	0.0073	<0.005	3.72	0.00877	<0.005	167	0.0116	0.00694
	8/29/2008	<0.01	<0.005	0.0783	<0.002	0.0896	<0.002	786	<0.005	<0.005	<0.005	<0.2	<0.005	247	<0.005	0.0108	<0.005	4.68	0.00658	<0.005	152	0.0106	0.00657
	12/4/2008	NA	<0.005	0.0759	NA	NA	<0.002	NA	<0.005	NA	NA	NA	<0.005	NA	NA	NA	NA	NA	0.00942	<0.005	NA	NA	NA
	2/23/2009	<0.01	<0.005	0.0611	<0.002	0.0786	<0.002	698	<0.005	<0.005	<0.005	<0.2	<0.005	215	<0.005	0.00976	<0.005	4.14	0.00893	<0.005	192	0.0107	<0.005
	5/7/2009	<0.05	<0.025	0.074	<0.01	<0.1	<0.01	596	<0.025	<0.025	<0.025	<1	<0.025	198	<0.025	<0.025	<0.025	4	<0.025	<0.025	224	<0.025	<0.025
	8/25/2009	NA	<0.005	0.0751	NA	NA	<0.002	NA	<0.005	NA	NA	NA	<0.005	NA	NA	NA	NA	NA	0.0082	<0.005	NA	NA	NA
	11/9/2009	NA	<0.005	0.0816	<0.002	<0.005	<0.002	NA	<0.005	NA	NA	NA	<0.005	NA	NA	NA	NA	NA	0.00702	<0.005	NA	NA	NA

	Date	Volatiles (µg/L)				Semi Volatiles (µg/L)	Anions (mg/L)				Total Alkalinity
		Benzene	Ethyl benzene	Tetrachloro ethene	Xylenes	Naph thalene	Chloride	Fluoride	Nitrate/Nitrite as Nitrogen*	Sulfate	
		MCL 5	MCL 700	MCL 5	WQCC 620	WQCC 30	WQCC 250	WQCC 1.6	WQCC 1	WQCC 600	-
Reverse Osmosis Reject Water	12/27/2004	<5	<5	<5	<10	<10	233	3.16	1.78	1660	622
	1/16/2007	NA	NA	NA	NA	NA	515	3.98	NA	2160	669
	2/22/2007	<5	<5	<5	<15	<5	583	3.38	1.56	1920	638
	7/5/2007	<5	<5	<5	<15	<5	328	2.91	1.86	1560	520
	12/14/2007	<5	<5	<5	<15	<5	464	3.46	0.58	1910	982
	2/7/2008	<5	<5	<5	<15	<5	417	2.55	0.928	1540	575
	5/22/2008	<5	<5	<5	<15	<5	293	2.82	NA	1530	296
	8/29/2008	<5	<5	<5	<15	<5	241	3.98	NA	1980	869
	12/4/2008	<5	<5	<5	<15	<5	307	3.76	NA	1810	819
	2/23/2009	NA	NA	NA	NA	NA	325	3.17	NA	1740	691
	5/7/2009	NA	NA	NA	NA	NA	392	2.83	NA	1740	664
	8/25/2009	NA	NA	NA	NA	NA	461	3.62	NA	1870	729
	11/9/2009	NA	NA	NA	NA	NA	525	3.92	NA	2040	787

Table 1 Footnotes and Definitions

3.16 Concentration shown exceeds the groundwater standard

Abbreviations:
mg/L = Milligrams per liter
µg/L = Micrograms per liter
NA = Not analyzed

Laboratory Qualifiers:
J = Analyte detected below quantization limits
H = Analyzed outside of hold time
" * " = Laboratory reported Nitrate/Nitrite (as N): the lower of the two MCLs of 1 µg/L used given Nitrite (as N) MCL of 1 µg/L and Nitrate (as N) MCL of 10 µg/L

Groundwater Standards
" - " = No standard available
MCL = Maximum Contaminant Level from the National Primary Drinking Water Standards
NMED SSL = New Mexico Environment Department Soil Screening Level Tap Water Standard
NMED TPH = New Mexico Environment Department Total Petroleum Hydrocarbon Standards, October 2006
WQCC = Water Quality Control Commission; standard for groundwater from NMAC 20.6.2.3103

• **First Sampling Event (March to April 2009)**

o Wells not sampled due to the presence of PSH included MW-39, MW-48, MW-64, MW-65, MW-85, MW-86, MW-94, MW-97, MW-100, MW-102, MW-105, KWB-2R, KWB-4. KWB-5, KWB-6, KWB-8.

o MW-2A was sampled twice during this event. The data has been included for both sampling events.

o Well MW-46 was not sampled because it had been damaged: and

o NP-7 was not sampled because the well has been destroyed.

o MW-63 was not sampled because the area was inaccessible due to the temporary storage of heavy equipment.

o KWB-12A was not sampled because the well was dry.

o Irrigation wells RA 313, RA 314, RA 3353 and RA 3723 were not sampled because the irrigation pumps had been removed or disconnected.

o Due to laboratory sample login error, samples from the following wells were not analyzed for mercury by EPA method SW 7470: MW-4A, MW-10, MW-15, MW-22A, MW-25, MW-52, MW-53, MW-54A, MW-58, MW-88, KWB-1A, KWB-1C, KWB-7, KWB-9, KWB-11A, NP-5, NP-6, NCL-49, and RW-18.

o Samples collected from MW-67 and MW-89 were not analyzed for GRO.

o The laboratory did not report calcium for the sample collected from MW-10.

o MW-71, MW-106, and MW-107 were not sampled because the field staff believed that these wells were only supposed to be gauged during this sampling event.

o Field measurements were not collected for MW-103 and MW-104.

• **Second Sampling Event (September to October 2009)**

o Wells not sampled due to the presence of PSH included MW-39, MW-48, MW-64, MW-65, MW-85, MW-86, MW-94, MW-97, MW-100, MW-102, MW-105, KWB-2R, KWB-4. KWB-5, KWB-6 and KWB-8.

o Well MW-46 was not sampled because it had been damaged: and

o NP-7 was not sampled because it had been destroyed.

o MW-49 was not sampled due to a miscommunication between the field staff and the project managers because the field staff believed that MW-49 was only supposed to be sampled during the first sampling event.

o MW-71 was not sampled because the field staff believed that it was only supposed to be gauged.

o MW-63 was not sampled because the area was inaccessible due to the temporary storage of heavy equipment.

o KWB-P2 was not sampled because the well was dry.

- o The three upgradient wells (UG-1, UG-2, and UG-3R) were not sampled for the RCRA 8 metals.

- o Irrigation wells RA 314, RA 3353 and RA 3723 were not sampled because the irrigation pumps had been removed or disconnected.

- o The sample from OCD-1R was inadvertently labeled as OCD-1. The identification was corrected for tables and figures included in this report.

- o Groundwater Quality Parameters were not collected for the following wells because the water quality multiparameter meter was broken: MW-52, MW-58, KWB-9, KWB-10, KWB-12A, NP-1, and NP-2.

Corrective measures have been implemented with the laboratory to ensure that samples are properly logged in for all requested analyses and that all requested analyses are reported.

The following conclusions are based on the information obtained in 2009:

In general, the 2009 groundwater monitoring program was completed according to the provisions of the Workplan. Minor exceptions to the planned monitoring occurred, but do not significantly alter the effectiveness of the monitoring program. A map of monitor well locations is included in Figure 2. The following conclusions are based upon the information obtained in 2009:

Groundwater flow direction and gradient remains consistent with that measured in past years. (Figures 3 and 4)

Table 4
Summary of Recovery Trench Production
Navajo Refinery, Artesia, New Mexico

	Volume of Hydrocarbons Recovered (gallons)					Volume of Water Recovered (gallons)				
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total 2009	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total 2009
RW-1	43,506	119,115	3,060	12,807	178,488	391,554	1,072,035	27,540	115,263	1,606,392
RW-2	7,395	8,727	3,075	5,733	24,930	66,555	78,543	27,675	51,597	224,370
RW-3	0	0	0	0	0	0	0	0	0	0
RW-4*	0	0	33	3	36	0	0	297	27	324
RW-5*	4,453	19,472	291	3,849	28,065	40,080	175,250	2,621	34,637	252,587
RW-6*	640	0	0	832	1,472	71	0	0	92	164
RW-7	0	0	0	0	0	0	0	0	0	0
RW-8	4,987	113	363	17,400	22,863	44,886	1,018	3,263	156,596	205,763
RW-9	0	0	0	0	0	0	0	0	0	0
RW-10	0	0	0	0	0	0	0	0	0	0
RW-11	567	20	40	1,940	2,567	63	2	4	216	285
RW-12	13,024	0	0	0	13,024	0	0			0
RW-13	4,806	2,169	9	3,095	10,079	534	241	1	344	1,120
RW-14	0	0	0	0	0	0	0	0	0	0
RW-15[1]	651	3,717	3	204	4,575	72	413	0	23	508
RW-16	0	0	0	0	0	0	0	0	0	0
RW-17	0	0	0	0	0	0	0	0	0	0
RW-18	0	0	0	0	0	0	0	0	0	0
Chase[2]	0	521	0	25	546	0	58	0	3	61
KWB-8	0	27	2	0	29	0	3	0	0	3
TOTAL	80,029	153,882	6,875	45,888	**286,674**	543,815	1,327,563	61,402	358,797	**2,291,577**

[1] Formerly noted as "Toolpushers"

[2] Dewatering sump located at Chase's pecan farm east of Bolton Road operated as needed.

Qtr = Quarter

* Single pump well, total fluids pumped to tank for oil/water separation.

PSH was encountered in MW-1 05, which is one of the four wells installed in 2009. The extent of PSH in other areas was consistent with the extent of PSH reported in 2008. (Figures 5and 6)

Concentrations of organic constituents have generally declined.

Operation of the recovery trench system has been improved (Table 4). Methods for improving the recovery system operation continue to be explored and implemented.

As a result of the above conclusions, Navajo will continue to operate the existing recovery trench system. Bi-weekly gauging and pumping of observed product in the recovery trench wells and monthly inspections and bailing of monitor wells known to contain product is believed to be sufficient to control the movement of PSH until a more comprehensive plan for mitigation is developed and approved by NMED.

Navajo submitted an updated Groundwater Monitoring Plan for 2010 (January 2010) that will be implemented for monitoring activities in 2010. This plan served to revise and update the 2006 Groundwater Monitoring Plan to include the monitor wells that have been installed since 2006, revises the sampling schedule for selected wells, and clarifies the analytical suite for all wells included in the monitoring program.

A summary of the 2009 **Groundwater Monitoring Program Analytical Results** is included in Table 1. Also included in Table 2, is the **Summary of Field Observations 2009**. Table 3 contains RO System Reject Water Analytical Data, Table 4 contains a Summary of Recovery Trench Production, and finally, Table 5 contains a Summary of Recovery Wells Product Recovery.

For a more detailed review of the sampling and monitoring events, please see the *2009 Annual Groundwater Report* that was sent to OCD on February 26, 2010.

SUMMARY OF SUMP AND UNDERGROUND WATER LINES TESTED

As part of Navajo's Discharge Permit, we are required to test all sumps and underground process/wastewater lines. It is Navajo's policy to fill the sump or line with water, mark a level, and then wait 4 hours and note any drop in water level.
Enclosed, are two spread sheets, titled **Table 6 NAVAJO REFINING COMPANY SEWER TESTING** and **Table 7 NAVAJO REFINING COMPANY LISTING OF ALL SUMPS** respectively. These spreadsheets detail test date, test method, pass/fail, tested by, and any repairs that were needed or made to the applicable sump or sewer. These spreadsheets are just the summary of the testing we do. The actual test pages, sign off sheets, etc. are kept in a file at the refinery for inspection by OCD as our permit requires.

NAVAJO REFINING COMPANY
ARTESIA REFINERY
LISTING OF ALL SUMPS

REVISION #7 | ALL SUMPS SHOWN ON DRAWING 55-Z-32-D-01 | TABLE 5 | APRIL 9, 2010

NO. OF SUMPS	SUMP ID #	LOCATION	DESCRIPTION	APPROX DIMENSIONS	LAST TEST DATE	NEXT TEST DUE	TEST PASS / FAIL	TESTED BY	TEST METHOD	REPAIR METHOD	COMMENT
1	02SUMP01	UNDER H-20	CONCRETE BOX	2'-0" x 2'-0" x 3'-0" D	8/18/2009	8/18/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
2	02SUMP02	UNDER H-19	CONCRETE BOX	2'-6" x 2'-6" x 15" D	6/1/2005	6/1/2010					
3	08SUMP01	UNLOADING RACK SOUTH OF 400 TANK	CONCRETE BOX	7'-6" L x 4'-6" W x 3'-0" D	8/25/2008	8/25/2013	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
4	08SUMP02	SPILL COLLECTION BOX AT CBO RR RACK (NORTH)	STEEL BOX	2' x 2' x 2'	8/18/2009	8/18/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
5	08SUMP03	SPILL COLLECTION BOX AT CBO RR RACK (SOUTH)	STEEL BOX	2' x 2' x 2'	8/18/2009	8/18/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
6	08SUMP04	CBO BETWEEN TRUCK RACK & RAILROAD (NORTH)	CONCRETE BOX	8' x 6' x 8'	8/18/2009	8/18/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
7	08SUMP05	CBO BETWEEN TRUCK RACK & RAILROAD (SOUTH)	CONCRETE BOX	8' x 6' x 8'	8/18/2009	8/18/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
8	08SUMP06	P-139 EAST OF CBO RACK	CONCRETE BOX	3' x 3' x 3'	8/18/2009	8/18/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
9	08SUMP07	WATER DRAW NORTH SIDE OF 834 TANK	55 GALLON STEEL DRUM	N/A	8/21/2009	8/21/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
10	08SUMP08	SOUTHWEST CORNER OF 834 TANK	U/G STEEL TANK	N/A	2/14/2005	2/14/2010	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
	08SUMP09	838 TANK WATER DRAW PIT	CONCRETE BOX	16' x 9' x 2'	N/A	N/A					LOCATED IN NE CORNER OF DIKE - OUT OF SERVICE
11	08SUMP10	WATER DRAW PIT EAST SIDE OF 835 TANK	CONCRETE BOX	9'-8" x 5'-8" x 2'-6"	8/21/2009	8/21/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
	08SUMP11	SLURRY SLINGER SLUDGE PIT	STEEL BOX	9' x 7' x 5'	N/A	N/A					OUT OF SERVICE
	08SUMP12	SLURRY SLINGER SLUDGE PIT	STEEL BOX	9' x 7' x 5'	N/A	N/A					OUT OF SERVICE
	08SUMP13	SLURRY SLINGER SLUDGE PIT	STEEL BOX	9' x 7' x 5'	N/A	N/A					OUT OF SERVICE
12	08SUMP14	WATER DRAW PIT AT EAST SIDE OF 815 TANK	CONCRETE BOX	8'-0" x 4'-0" x 3'-9" D	1/2/2006	1/2/2011	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
13	08SUMP15	BLENDER PUMP PIT	CONCRETE BOX	4' x 4' x 4'	8/27/2008	8/27/2013	PASS	GILES, INC.	HYDRO/LEVEL CHECK		NORTH OF BLENDER BUILDING
14	08SUMP16	SEWER BOX LIFTING STATION SW CORNER OF DIKE @ 401 TK	CONCRETE BOX	8' x 8' x 8'	8/21/2009	8/21/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
15	08SUMP17	WEST SIDE OF 450 TANK	CONCRETE BOX	3' x 3' x 4'	8/21/2009	8/21/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
16	08SUMP18	WEST SIDE OF 415 TANK	CONCRETE BOX	8' x 6' x 6' DEEP	8/21/2009	8/21/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
17	08SUMP19	SE CORNER #2 YARD AT NAPHTHA TRANSFER PUMPS	CONCRETE BOX	3' x 3' x 3'	8/21/2009	8/21/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
18	08SUMP20	WEST OF #3 BLENDER	CONCRETE BOX	3' x 3' x 3'	8/27/2008	8/27/2013	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
19	08SUMP21	ASPHALT RACK SOUTH OF 433 TANK	CONCRETE BOX	4' x 4' x 4'	9/20/2004	9/20/2009	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
	08SUMP22	WATER DRAW PIT AT 437 TANK	CONCRETE BOX	20' x 40' x 3'	N/A	N/A					OUT OF SERVICE; REMOVED BY ENG. PROJECTS JAN. 2008
	08SUMP23	WATER DRAW PIT AT 439 TANK	CONCRETE BOX	20' x 40' x 3'	N/A	N/A					OUT OF SERVICE
20	08SUMP24	SOUTH OF 438 TANK	U/G STEEL TANK	N/A	8/27/2009	8/27/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
21	08SUMP25	WEST OF 400 TANK	U/G STEEL TANK	N/A	8/17/2009	8/17/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
22	08SUMP26	SPILL RETENTION SUMPS @ GASOLINE LOADING RACK	CONCRETE BOX	2' x 2'-6" x 2'	9/21/2008	9/21/2013	PASS	GILES, INC.	HYDRO/LEVEL CHECK		HOLLY ENERGY PARTNERS
23	08SUMP27	SPILL RETENTION SUMPS @ GASOLINE LOADING RACK	CONCRETE BOX	2' x 2'-6" x 2'	9/2/2008	9/2/2013	PASS	GILES, INC.	HYDRO/LEVEL CHECK		HOLLY ENERGY PARTNERS
24	08SUMP28	NORTH SIDE OF 110 TANK	U/G STEEL TANK	N/A	8/27/2009	8/27/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
25	08SUMP29	LIFT STATION @ FILTER MANIFOLD S. OF LPG LOADING RACK	U/G STEEL TANK	6' DIAMETER x 4' DEEP	8/27/2009	8/27/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		HOLLY ENERGY PARTNERS
26	08SUMP30	SUMP BETWEEN 431 TANK AND 432 TANK	CONCRETE BOX	6' x 8' x 7'-6"	8/31/2009	8/31/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
27	08SUMP31	SOUTH ASPHALT LOADING RACK	CONCRETE BOX	5' x 8'-6" x 6'	8/31/2009	8/31/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		LOCATED UNDERNEATH DOGHOUSE AT RACK
	08SUMP32	SOUTHWEST OF 834 TANK	U/G STEEL TANK	N/A	N/A	N/A					OUT OF SERVICE
28	08SUMP33	EASTOF 115 TANK BY HEP PUMPS	METAL BOX	5' x 3' x 3'	12/8/2008		FAIL	GILES, INC.	HYDRO/LEVEL CHECK		
28	08SUMP33	EASTOF 115 TANK BY HEP PUMPS	METAL BOX	5' x 3' x 3'	1/15/2009	1/15/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		REPAIRED METAL BOX
29	08SUMP34	EL PASO PUMP STATION	METAL BOX	6' x 4' x 6'	12/5/2008	12/5/2013	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
30	08SUMP35	EL PASO PUMP STATION	METAL BOX	5' x 3' x 3'	12/5/2008	12/5/2013	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
31	08SUMP36	EL PASO PUMP STATION	METAL BOX	6' x 4'	12/5/2008	12/5/2013	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
32	08SUMP37	FOUR CORNERS STATION "HEP"	METAL BOX	6' x 4'	12/5/2008	12/5/2013	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
33	08SUMP38	FOUR CORNERS STATION "HEP"	METAL BOX	6' x 4'	12/5/2008	12/5/2013	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
34	08SUMP39	SW OF 1225 TANK	CONCRETE BOX	7' x 11' x 8' D		6/1/2014					New installation in June 2009
35	09SUMP01	FLUORIDE PRECIPITATOR	CONCRETE BOX	4'-0" x 4'-0" x 3' D	10/25/2007		FAIL	GILES, INC.	HYDRO/LEVEL CHECK		
35	09SUMP01	FLUORIDE PRECIPITATOR	CONCRETE BOX	4'-0" x 4'-0" x 3' D	10/27/2007	10/26/2012	PASS	GILES, INC.	HYDRO/LEVEL CHECK		REPAIRED WITH CONCRETE PATCH
36	10SUMP01	SLURRY BARREL @ NORTH PLANT SOUTH OF X-245	1/2 - 55 GALLON STEEL DRUM	N/A	N/A	Replace as req'd					LOCATED IN NORTH PLANT NW OF OLD COMFORT STATION
37	10SUMP02	SLURRY BARREL @ NORTH PLANT SOUTH OF X-245	1/2 - 55 GALLON STEEL DRUM	N/A	N/A	Replace as req'd					LOCATED IN NORTH PLANT NW OF OLD COMFORT STATION
38	10SUMP03	FLUE GAS SCRUBBER - FCCU	CONCRETE BOX	4'-0" x 4'-0" x 4' D	10/25/2007	10/24/2012	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
39	10SUMP04	FLUE GAS SCRUBBER - FCCU	CONCRETE BOX	4'-0" x 4'-0" x 3' D	10/25/2007		FAIL	GILES, INC.	HYDRO/LEVEL CHECK		
39	10SUMP04	FLUE GAS SCRUBBER - FCCU	CONCRETE BOX	4'-0" x 4'-0" x 3' D	11/3/2007	11/2/2012	PASS	GILES, INC.	HYDRO/LEVEL CHECK		REPAIRED WITH CONCRETE PATCH
40	21SUMP01	UNDER D-202 (VACUUM UNIT)	CONCRETE BOX	2'-6" x 2'-6" x 2'-6" D	10/29/2007	10/28/2012	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
41	21SUMP02	EAST OF X-407 ON BRADLEY BLVD	CONCRETE BOX	1'-6" x 1'-6" x 15" D	10/29/2007	10/28/2012	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
	43SUMP01	WEST END OF S.P. ALKY C.T. Y-2 (NORTH)	CONCRETE BOX	6'-0" x 6'-0" x 6'-6" D	N/A	N/A					OUT OF SERVICE
	43SUMP02	WEST END OF S.P. ALKY C.T. Y-2 (SOUTH)	CONCRETE BOX	10'-0" x 6'-0" x 6'-6" D	N/A	N/A					OUT OF SERVICE
42	44SUMP16	H-21 PUMP OUT SUMP (NW CORNER OF CURBED AREA AT H-21)	CONCRETE BOX	2'-8" x 2'-8" x 2'-0" D	10/29/2007	10/28/2012	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
43	46SUMP01	NORTH TOOL ROOM	CONCRETE BOX	2' x 2' x 2'	9/4/2009	9/4/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		

NAVAJO REFINING COMPANY
ARTESIA REFINERY
LISTING OF ALL SUMPS

REVISION #7 — ALL SUMPS SHOWN ON DRAWING 55-Z-32-D-01 — TABLE 5 — APRIL 9, 2010

NO. OF SUMPS	SUMP ID #	LOCATION	DESCRIPTION	APPROX DIMENSIONS	LAST TEST DATE	NEXT TEST DUE	TEST PASS / FAIL	TESTED BY	TEST METHOD	REPAIR METHOD	COMMENT
44	46SUMP02	SE CORNER OF TRUCKING YARD	CONCRETE BOX	3' x 3' x 2'-6"	9/4/2009	9/4/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
45	46SUMP03	DIESEL STORAGE TANK AT MULCOCK WELL GENERATOR	FIBERGLASS	10' x 8' x 1'-9"	9/3/2009		FAIL	GILES, INC.	HYDRO/LEVEL CHECK		
45	46SUMP03	DIESEL STORAGE TANK AT MULCOCK WELL GENERATOR	FIBERGLASS	10' x 8' x 1'-9"	9/7/2009	9/7/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
	46SUMP04	NP BUNDLE SLAB CATCH BASIN	CONCRETE BOX W/ BAFFLE	50' x 3' x 3'-6"	7/14/2004	7/14/2009	PASS	GILES, INC.			NOT A SUMP - BOX TIED TO SEWER LINE (SEE SEWER DWGS)
46	46SUMP05	DIESEL STORAGE TANK SOUTH OF #2 WAREHOUSE	FIBERGLASS	16' x 8' x 1'-9"	8/28/2008	8/28/2013	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
47	46SUMP06	HYDRAULIC FLUID CONTAINMENT SOUTH OF #2 WAREHOUSE	FIBERGLASS	7'-6" x 6'-6" x 1'-6"	8/28/2008	8/28/2013	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
48	46SUMP07	UNLEADED GASOLINE STORAGE TK SOUTH OF WELDING SHOP	FIBERGLASS	12' x 8' x 2'	8/28/2008	8/28/2013	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
	46SUMP08	SP BUNDLE SLAB CATCH BASIN	CONCRETE BOX W/ BAFFLE	50' x 3' x 3'-6"	7/13/2004	7/13/2009	PASS	GILES, INC.			NOT A SUMP - BOX TIED TO SEWER LINE (SEE SEWER DWGS)
49	46SUMP09	CHEMICAL PAD WEST END OF #2 YARD	CONCRETE BOX	3' x 3' x 3'	9/16/2009	9/16/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
50	46SUMP10	EAST OF MECHANIC SHOP	CONCRETE BOX	4' x 2'-9" x 3'	9/4/2008	9/4/2013	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
51	46SUMP11	EAST OF MECHANIC SHOP	CONCRETE BOX	3' x 3' x 3'	9/16/2009	9/16/2014	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
52	46SUMP12	NW CORNER OF ELECTRICAL SHOP	U/G STEEL TANK	N/A	9/5/2008	9/5/2013	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
53	46SUMP13	NORTH OF INSTRUMENT SHOP	CONCRETE BOX	5' x 5' x 5'	9/4/2008	9/4/2013	PASS	GILES, INC.	HYDRO/LEVEL CHECK		
54	46SUMP15	SAMPLE SUMP NORTH OF LAB	CONCRETE BOX	4' x 4' x 4' (approx)		2010					
55	46SUMP16	CHEMICAL STORAGE AREA, NORTH OF WAREHOUSE "EAST"	CONCRETE BOX		NEW 10/07	2012					"NEW ADDITION" REQUIRES ADDED TO DRAWING
56	46SUMP17	CHEMICAL STORAGE AREA, NORTH OF WAREHOUSE "WEST"	CONCRETE BOX		NEW 10/07	2012					"NEW ADDITION" REQUIRES ADDED TO DRAWING
57	63SUMP01	NORTHSIDE OF HYDROGEN UNIT	CONCRETE BOX	3'-0" x 3'-0" x 4'-3" D	6/1/2005	6/1/2010					THIS SUMP WILL BECOME PSB WHEN NEW H2 UNIT IS BUILT
						Test in 2010					

SUMMARY OF SPILLS, RELEASES and FIRES

Reportable spills, releases and fires numbered twenty-one (21) during 2009. Hydrocarbon spills, of which there were four (4) accounted for a total of 515 barrels of hydrocarbons spilled with 260 of those barrels recovered by vacuum truck. All documents associated with Spills, releases and Fires are found in Appendix 1. They are as follows:

1) On March 25, 2009, A Relief Valve (RV) malfunctioned and released an estimated 30 barrels of crude oil under pressure into the atmosphere as vapor. The wind was blowing towards the south and there was a very slight film of hydrocarbon on cars parked across from the refinery. These cars were cleaned up at refinery expense. There was no other visible contamination in the area. The value of 30 barrels lost was based on a calculation using pressure and estimated time the valve malfunctioned and, based on the observed impacts, is probably exceedingly high. There were no bottom hole samples because there was no visible contamination. The C-141 for this release is included in Appendix 1.

2) On May 8, 2009, the belly valve on a railcar holding fuel oil released due to mechanical failure and dumped 434 barrels of fuel oil in the area of the PG Rack. 217 barrels were recovered by vacuum truck and 37 loads of contaminated soil were picked up and disposed at CRI. Getting between the rails on the railroad proved impossible and a report titled "Delineation Report/Workplan Navajo Refining Company PG Loading Rack" was submitted to OCD and NMED on June 24, 2009. Since waste was left in place, the PG Loading Rack was added to the SWMU list of Navajo's Post Closure Permit and corrective action will be addressed under 40 CFR 264.101 in accordance with that permit. The C-141, waste manifests and the report mentioned above are included in Appendix 1.

3) On December 17, 2009, a diesel release was discovered near the Tank 834 sump. The spill remained within the dike of Tk 834. An estimated 45 barrels was spilled and 40 barrels were vacuumed up using Navajo's vacuum truck. The spill was dug up and disposed at CRI. The associated waste manifests and C-141 are included in Appendix 1.

4) On December 23, 2009 a mist/spray diesel release was discovered coming from a flange on a pig trap at the 12" Four Corners pipeline in the refinery. The pipeline was shut down and the gasket replaced. It was raining at the time and an estimated 5-7 barrels of diesel were released. Navajo's vacuum truck was called and picked up 5 barrels of a mixture of diesel and rain water. The C-141is included in Appendix 1.

In 2009, Navajo also had seven (8) other spills. They are as follows:

1) On February 1, 2009, during turn-around a section of sewer was bypassed for work related projects. This section was "pumped around" using a diaphragm pump. The pump failed and allowed water to back up and overflow. 50 barrels of water was released and 35 barrels were recovered by the vacuum truck. Contaminated soil was removed and disposed at CRI. The C-141 is included in Appendix 1.

2) On May 5, 2009, while cleaning TK-63 (Slurry Tank) Navajo's vacuum truck rolled back into a FRAC tank that held the listed waste K170. When the truck hit the manifold on the FRAC tank, it broke the valve on the tank and spilled the contents of the FRAC tank. 290 barrels of material was lost inside a diked area. The vacuum truck picked up 230 barrels of material. Contaminated soil was removed and shipped as hazardous waste and those manifests are included in Appendix 1. There are no bottom hole samples because this spill is in an area of the plant that has had historical spills and as we dug down to clean THIS spill it was obvious that we werent going to be able to get to clean soil. The C-141 and accociated documents are included in Appendix 1.

3) On May 11, 2009, while still cleaning TK-63 (Slurry Tank) a manhole on the north side of the tank was opened and spilled 45 barrels of sludge. 38 barrels were picked up by vacuum truck. In addition, contaminated soil was removed and disposed as hazardous waste. As with the spill above in the same area of the plant, while digging up the obvious soil from THIS spill, it was clear that we were digging in historical spills and we wouldn't be able to get clean bottom hole samples. The C-141 and associated documents for this spill are included in Appendix 1.

4) On June 18, 2009, as a result of a sewer back-up, 15 barrels of process wastewater was released in the North Plant around D-80. The spill collected near the sewer inlet and some ran down into the diversion ditch that Navajo installed to keep anything from the plant out of Eagle Draw. A vacuum truck recovered 10 barrels of oily water and put it back into the sewer system. Contaminated soil was dug up and disposed. The C-141 and associated documents are included in Appendix 1.

5) On October 8, 2009, as a result of a sewer back up at the South Bundle Pad, the sewers ran over and spilled 50 barrels of oily wastewater that ran down Chisum Street. The vacuum truck recovered 40 barrels and put the oily wastewater back into the sewer downstream. Contaminated soil was dug up and disposed. The C-141 and associated documents are included in Appendix 1.

6) On October 13, 2009, as a result of sewers running slow, 10 barrels of process wastewater were released near the North Plant Flare Drum. A vacuum truck recovered 8 barrels and reinserted it into the sewers downstream. A C-141 and associated documents are included in Appendix 1.

7) On October 25, 2009, a flex line connected to Tk-437 split open and spilled wastewater that was being pumped into the tank to provide capacity during a fall-off test for one of Navajo's injection wells.120 barrels were spills and 100 barrels were recovered using a vacuum truck. The spill was contained within the diked area of Tk 437. A C-141 and associated documents are included in Appendix 1.

8) On November 11, 2009, an historical mercury spill was discovered during construction activities in the South Plant. Navajo hired Safety and Environmental Solutions to clean up the mercury. The contaminated dirt was drummed up and disposed and bottom samples collected. The C-141 and associated documents are included in Appendix 1.

In 2009, Navajo had ten (10) fires that were reported to OCD. All C-141's for these incidents are included in Appendix 1. They were as follows:

1) On January 26, 2009, the North Plant Flare "burped" hydrocarbon and started a small grass fire that was put out immediately by Navajo personnel. There were no injuries and no clean up actions needed.

2) On February 25, 2009, during start up after turn around, two unions on a gas line to the Crude Charge Heater had not been tightened. The leaking gas ignited. The fire was put out immediately and no one was injured.

3) On April 21, 2009, while cutting a manway into TK 409 a fire started inside the tank and ignited causing an explosion that blew a hole in the roof of the tank. The fire was extinguished by Navajo's Fire Department and there were no injuries. Navajo's SOP will be to cut future manways using water. The tank has not been replaced or torn down.

4) On May 21, 2009, a seal failure in the AGO pump in the South Crude Unit caused a fire that was extinguished immediately. Some nearby scaffolding caught fire also but there were no injuries. The seal on the pump was fixed on May 21, 2009. No clean up needed.

5) On July 22, 2009, a fire in the FCC Unit caused by a gasket leak in an exchanger. The fire was put out immediately and there were no injuries. Some insulation was burned and had to be replaced. No cleanup needed.

6) On August 18, 2009, a fire from a leaking gasket on an exchanger in the Hydrogen Unit. The gasket was replaced and there were no injuries and no damage except to insulation. No cleanup needed.

7) On November 5, 2009, a fire in the CCR Unit at Heater 363. A braided hose caught fire and was extinguished immediately. The braided hose was replaced. There were no injuries from this fire. No clean up was needed.

8) On December 20, 2009, a pump seal failed on a pump near TK-433 and gas oil caught fire. The leaked gas oil stayed within the secondary containment of the pump. The fire was extinguished immediately and no one was injured in the fire. No clean up was needed.

9) On December 22, 2009, a fire on the inlet reactor flange in the CCR Unit. A contractor was installing a clamp on the reactor flange trying to stop a hydrogen leak. The hydrogen temperature was about 900 degree F and the hydrogen auto ignited. The fire was extinguished using hand held fire extinguishers.There were no injuries and no clean-up was needed.

10) On December 31, 2009, a hydrogen fire in the CCR Unit. Contractors were replacing piping on a hydrogen line. While they were grinding, a spark ignited a hydrogen leak from a blind flange that was not completely tight. The fire was extinguished using hand-held extinguishers. The flange was tightened and the leak stopped. There were no damages and no injuries. No clean up was required.

SUMMARY OF NEW GROUNDWATER CONTAMINATION

In 2009, Navajo found no new groundwater contamination and, in fact, the areas where we have plumes, the plumes have decreased in size and thickness. In the North Colony Landfarm area, no measurable phase separated hydrocarbons (PSH) are found anymore. The PSH in the Tetra Ethyl Lead (TEL) area have been reduced to a sheen. In the southeastern part of the refinery, plume thickness has been decreased significantly.

In November 2008, Navajo hired an employee whose sole job is to maintain recovery wells, bail wells that have PSH, and keep records of those activities. This more aggressive approach to removing PSH should show up in future reports as reduced PSH overall. For the year of 2009, we recovered a total of 162 gallons of product from wells with PSH (Table 5).We are looking into more efficient methods of removing this product.

In Table 4, are the summaries of the production of hydrocarbons from our Recovery Trenches and the results of our bailing of monitor wells with PSH are summarized in Table 5.

Table 5
Summary of Recovery Wells Product Recovery
Navajo Refinery, Artesia, New Mexico

	Volume of Hydrocarbons Recovered (gallons)				
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total 2009
KWB-2R	0	0	0	0	0
KWB-4	25	12	11	4	51
KWB-6	7	6	3	1	16
MW-64	0	1	2	2	5
MW-65	1	5	1	0	7
MW-85	1	2	1	3	7
MW-86	2	2	1	4	8
MW-94	10	11	5	5	31
MW-97	6	3	6	0	15
MW-100	0	0	0	0	0
MW-102	9	6	7	0	22
Chase[1]	0	0	0	3	3
TOTAL	59	47	36	20	**162**

[1] Dewatering sump located at Chase's pecan farm east of Bolton Road operated as needed.
Qtr = Quarter

SUMMARY OF EPA/NMED RCRA ACTIVITY

As OCD is aware, Navajo is in the process of investigating numerous areas of the refinery and outlying areas as part of our post-closure permit with NMED. During 2009, we performed several investigations and submitted several reports as follows:

Revised Three-Mile Ditch Additional Corrective Action Investigation Report

This report, required by NMED and submitted on January 30, 2009, asked Navajo to conduct additional field investigations of Three Mile Ditch (TMD) to better define soil and groundwater impacts that were documented during the TMD Corrective Action Investigation and remove impacted soils that could potentially be leaching organic and inorganic constituents to groundwater.

About 13,500 cubic yards of soil was excavated and disposed at CRI. Sampling results and manifests are included with this report.

Evaporation Ponds Additional Corrective Action Investigation Report

This report, required by NMED, summarizes the activities completed according to the approved *Evaporation Ponds Corrective Action Work Plan* that was approved by NMED on October 2006. The focus of this report was to better define soil and groundwater impacts documented during the 2005 Corrective Action Investigation. The following conclusions were made based on the data obtained:

> Total Petroleum Hydrocarbons, Diesel Range Organics, arsenic, chromium, mercury and selenium impacts are present in the shallow soils beneath the Evaporation Ponds at concentrations exceeding regulatory screening standards.
>
> Depth to groundwater ranges from six feet to ten feet and the gradient is to the east-northeast.
>
> The general water chemistry parameter total dissolved solids (TDS) is elevated in all wells, but may be naturally occurring.
>
> No phase separated hydrocarbons (PSH) were encounteredin groundwater beneath the ponds during the investigation but subsequent monitoring events have shown the presence of PSH in MW-85 and MW-86.
>
> Dissolved phase groundwater impacts include TPH DRO, benzene, arsenic and selenium.
>
> The inactive ponds are, in some areas, impacting groundwater above a level of concern and thus corrective action will be required.

A closure plan will need to be submitted in the near future.

Area of Concern (AOC) Group 2 Corrective Action Investigation Report

This report, required by NMED was submitted in April 2009. As required by the Permit and NMED, the *AOC Group 2 Corrective Action Investigation Work Plan* (Workplan) was submitted in May 2007. The approved Workplan provided a detailed description of activities to be conducted at the each of the four areas included in Group 2:

- Old API Separator (Group 2 AOC1, Permit SWMU 16): this area is located immediately south of the southwestern end of the Southeast Tank Farm Area and formerly contained an API separation unit. The separator is no longer present and Tank 136 has been placed in the area.

- South API Separator (Group 2 AOC2, Permit SWMU 19): this area is located in the central portion of the Refinery and also within the boundaries of the Southeast Tank Farm. The API separator that was located in this area has been removed from service.

- Southwest Tank Farm (Group 2 AOC3, Permit AOC 4): this area is located in the southwest corner of the refinery and contains nine active storage tanks of varying capacities.

- Crude Tank Farm (Group 2 AOC4, Permit AOC 5): this tank farm formerly contained two crude storage tanks (437 and 439) inside a bermed area located in the center of the refinery. The eastern tank was removed from service and the berms removed from the area to allow for construction of a new hydrocracker unit and a new Rose unit in 2008. The western tank remains in service.

An Amendment to the Workplan was submitted in February 2009 requesting a change from active soil gas sample collection procedures using a geoprobe rig to passive soil gas sample collection.
The scope of services actually performed included the following:

- Old API Separator:

    - Four passive soil vapor sample modules were placed at the four corners of the area. However, only 3 sample modules were retrieved and thus 3 soil vapor samples were collected in this area.

    - Two soil samples were collected from soil boring AOC1-SB1, which was installed near the center of the area.

    - Phase-separated hydrocarbon (PSH) was encountered during the drilling of AOC1-SB1 and the planned temporary well was not installed. A

sample of the PSH was collected from AOC1-SB1 and submitted for laboratory analysis to determine the general nature of the PSH.

- Groundwater was not sampled from within this area.

- South API Separator:
  - Four soil vapor samples were collected from the corners of this area.
  - Three soil samples were collected from soil boring AOC2-SB1, which was installed near the center of the area.
  - A temporary well was installed in AOC2-SB1. PSH was encountered during development of and sample collection from AOC2-SB1. A sample of the PSH was collected from AOC2-SB1 and submitted for laboratory analysis to determine the general nature of the PSH.
  - No groundwater sample was collected from this area.

- Southwest Tank Farm:
  - A total of 21 passive soil vapor sample modules were placed in the Southwest Tank Farm area. During retrieval the sample module placed at location AOC3-SG11 could not be recovered due to collapsing soil. Therefore, only 20 of the 21 modules installed in AOC3 were analyzed by the laboratory.
  - Soil samples were collected from 5 soil borings at the locations.
  - Temporary wells were installed in each of the 5 soil borings. Groundwater samples were collected from three of the four temporary wells. PSH was encountered during development of and sample collection from AOC3-SB5. A sample of the PSH was collected from AOC3-SB5 and submitted for laboratory analysis to determine the general nature of the PSH.
  - Monitor wells MW-103 and MW-104 were installed on the south side of the Southwest Tank Farm. Soil samples were collected during the installation of these two wells and groundwater samples were collected from MW-103 and MW-104 during the subsequent semiannual groundwater monitoring event and again in March 2009.

- Crude Tank Farm:
  - Passive soil vapor sample modules were placed in 12 locations throughout the Crude Tank Farm. Construction activities continue in the area of AOC4. During retrieval, it was discovered that one of the construction

crews had buried the sample module at location AOC4-SG7. An attempt was made to dig through the dirt and through the underlying caliche to recover the module but it was unsuccessful. Thus, only 11 soil vapor samples were obtained.

- Soil samples were collected from 4 soil borings throughout the Crude Tank Farm.

- Temporary wells were installed in 3 of the 4 soil borings. The geoprobe hit refusal at 18 feet below ground surface (ft bgs) in AOC4-SB4 and the boring was terminated prior to reaching groundwater. Thus, a temporary well was not installed in AOC4-SB4.

- Groundwater samples were collected from each of the 3 temporary wells. No PSH was encountered in these temporary wells.

- Monitor wells MW-105, MW-106 and MW-107 were installed in the vicinity of the Crude Tank Farm. Soil samples were collected during the installation of these 3 wells in a manner similar to the soil borings.

- PSH was encountered in MW-105 during development. A PSH sample was collected from MW-105 and submitted for fingerprint analysis.

- Groundwater samples were collected from MW-49, MW-106 and MW-107 as per the approved Workplan.

- Soil Vapor Study Area:

  - Six pairs soil gas sample locations were selected in a north-south line extending northward from near KWB-5, located southeast of the refinery. Passive soil gas samples were collected from the western location of each pair and were designated as SVS-1A through SVS-6A. Active soil gas samples were collected from the eastern location of each pair and were designated as SVS-1B through SVS-6B.

Soil Reuse Issue

As a result of all the recent construction at the refinery, Navajo had large piles of dirt that we wanted to use for berms for new tanks we were building. Through a series of letters and sampling campaigns, NMED and OCD allowed Navajo to use portions of the piles that passed State regulated limits as berm material in the refinery. The rest of the dirt was hauled to CRI as non hazardous waste.

North Colony Landfarm Revised Permit Modification Request

Submitted on November 13, 2009, this Permit Modification Request (PMR) addresses modifications made by the Permittee to the North Colony Landfarm (NCL). The NCL is an approximately 4.25-acre land treatment unit located near the northwestern corner of the refinery property, north of two aboveground diesel storage tanks (Tank 834 and Tank 838). The NCL received hazardous wastes (K049, K050, K051 and K052) between 1980 and 1990, where they were spread and tilled for treatment.

Modifications made by the Permittee at the NCL consist of installation of Tank 815 for storage of ultra low sulfur diesel (ULSD) fuel and installation of secondary containment berms and ancillary tank equipment.

SUMMARY

2009 was a busy year at Navajo Refining. The more aggressive approach to removing hydrocarbons (by hiring our new employee) gives us a more consistent approach to removing hydrocarbons in wells that have PSH. We expect much better results as this approach is put into use over the years.

With the startup of the new units in 2009, our capacity is now 100,000 bbls a day. These new units will also give us better flexibility in the type of crude we can run.

We found no new groundwater contamination in 2009 and, in fact, have seen areas where there had previously been PSH now showing nothing or only a sheen. This is some positive proof that our recovery trenches are doing the job they were intended for.

We continue to make progress on delineating and defining any contamination associated with our Solid Waste Management Units (SWMU's) and executing plans to remediate and close those units. In the first part of this year (2010) we have closed the North Colony Landfarm and hope to be able to do the same thing to the Evaporation Ponds in the near future.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Navajo Refining Co	Contact Darrell Moore
Address 501 E Main Artesia, NM	Telephone No. 575-746-5281
Facility Name Artesia Plant	Facility Type Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release approx 30 bbls	Volume Recovered none
Source of Release Relief Valve	Date and Hour of Occurrence 3/25/09 6:45 am	Date and Hour of Discovery 3/25/09 6:45 am
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
At ~06:50 on 03/25/2009, the South Plant Control Room called to report that the W-16 Relief Valve (RV) had opened to the atmosphere. The release occurred about 06:45 and lasted for ~1 minute. The operator explained that they received some wet steam and the water entering the crude tower increased the pressure above the RV set point.

Describe Area Affected and Cleanup Action Taken.*
The wind was from the north and some minor hydrocarbon carried off property across Highway 82. There was a minor sheen on the highway but it evaporated in very short order.

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: Darrell Moore	OIL CONSERVATION DIVISION	
Printed Name: Darrell Moore	Approved by District Supervisor:	
Title: Environmental Manager for Water and Waste	Approval Date:	Expiration Date:
E-mail Address: Darrell.moore@hollycorp.com	Conditions of Approval:	Attached ☐
Date: April 1, 2009 Phone: 575-746-5281		

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☑ Initial Report ☐ Final Report

Name of Company: Navajo Refining Co. LLC	Contact: Aaron Strange
Address: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311
Facility Name: Artesia Plant	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release: Fuel Oil Spill	Volume of Release: ~ 434 barrels	Volume Recovered: ~ 217 barrels
Source of Release: Rail Car valve failure	Date and Hour of Occurrence: 5/8/09 ~ 11:30	Date and Hour of Discovery: 5/8/09 ~ 11:30
Was Immediate Notice Given? ☑ Yes ☐ No ☐ Not Required	If YES, To Whom? OCD Brad Jones, & NMED Hope Monzeqlio,	
By Whom? Aaron Strange	Date and Hour: 5/8/09 OCD-12:49, & NMED-13:06	
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
On 5/8/09 fuel oil spilled onto the ground from a rail car due to equipment failure. The valve on the rail car that operates the belly drain failed and released the product to the ground. The spill was contained with soil berms and vacuum trucks removed the standing liquids.

Describe Area Affected and Cleanup Action Taken.*
The spill occurred at the PG loading rack located at the south west corner of the Artesia Plant. The spill ran north between the train rails. Some of the spill spread just outside the Navajo Refinery fence line (next to the train tracks). Vacuum trucks removed the standing liquids and the contaminated soil is being dug up and placed into roll-off bins for disposal. A disposal facility will be chosen, based on the analytical test results.

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: Aaron Strange	OIL CONSERVATION DIVISION	
Printed Name: Aaron Strange	Approved by District Supervisor:	
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: aaron.strange@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 5/8/09 Phone: 575-746-5451		

* Attach Additional Sheets If Necessary

Navajo Refining Company
PG Loading Rack at the Artesia Refinery
Section 8, Township 17S, Range 26E
Eddy County, New Mexico

Delineation Report/Work Plan

June 24, 2009

Prepared for:

Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

By:

Safety & Environmental Solutions, Inc.
703 East Clinton
Hobbs, New Mexico 88240
(575) 397-0510

TABLE OF CONTENTS

I. Company Contacts

NAME	Company	Telephone	E-mail
Darrell Moore	Navajo Refining	575-748-3311	darrell.moore@navajo-refining.com
Bob Allen	SESI	505-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by Navajo Refining Company to perform delineation services at the Artesia Refinery. Approximately 300 barrels of fuel oil spilled onto the PG loading rack due to a faulty valve an the bottom of a rail tanker car. The top six (6) to eight (8) inches of contaminated soil was excavated and disposed of at a New Mexico Oil Conservation Division (NMOCD) approved facility. Clean sand was then placed in between tracks.

III. Surface and Ground Water

According to Safety and Environmental Inc. Semi-Annual Groundwater Monitoring Water Level and Sampling Records prepared for Navajo Refining Company Artesia, New Mexico in March-April 2009, the closest groundwater of record is fifteen (15) feet at monitor well #50.

IV Soils

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

V. Work Performed

On June 1-2, 2009, SESI installed a total of forty two (42) hand auger holes to determine the vertical extent of contamination.

Samples were retrieved at thirty (30) inches from all forty two (42) hand auger holes. Twenty (20) auger holes were installed on the track between the ties and twenty-two (22) auger holes were installed between and beside the tracks themselves. (See Figure 3) All samples were properly preserved and transported under Chain of Custody to ALS Laboratory Group of Houston, Texas for analysis. The samples were analyzed for Total Petroleum Hydrocarbons (EPA Method SW-8015M) and Low Level Polycyclic Aromatic Hydrocarbons (PAHs) (EPA Method SW-8270).The results of the analysis are located in Appendix A.

All borings were backfilled from total depth to surface with bentonite and hydrated.

The results of all samples are below the New Mexico Environmental Department (NMED) Soil Screening Guidance, Industrial/Occupational Soil Levels with the exception of sample AH #24. The New Mexico soil screening level for Benzo (a) pyrene is 2.34 mg/kg and the sample result is 2.7 mg/kg. This level is only 0.36 mg/kg above the soil screening level. Given the location from which sample AH #24 was taken, (See Figure 3) in the middle of the loading tracks, it is felt that the sample result does not present an unacceptable risk to people, groundwater, or any other element of the natural environment.

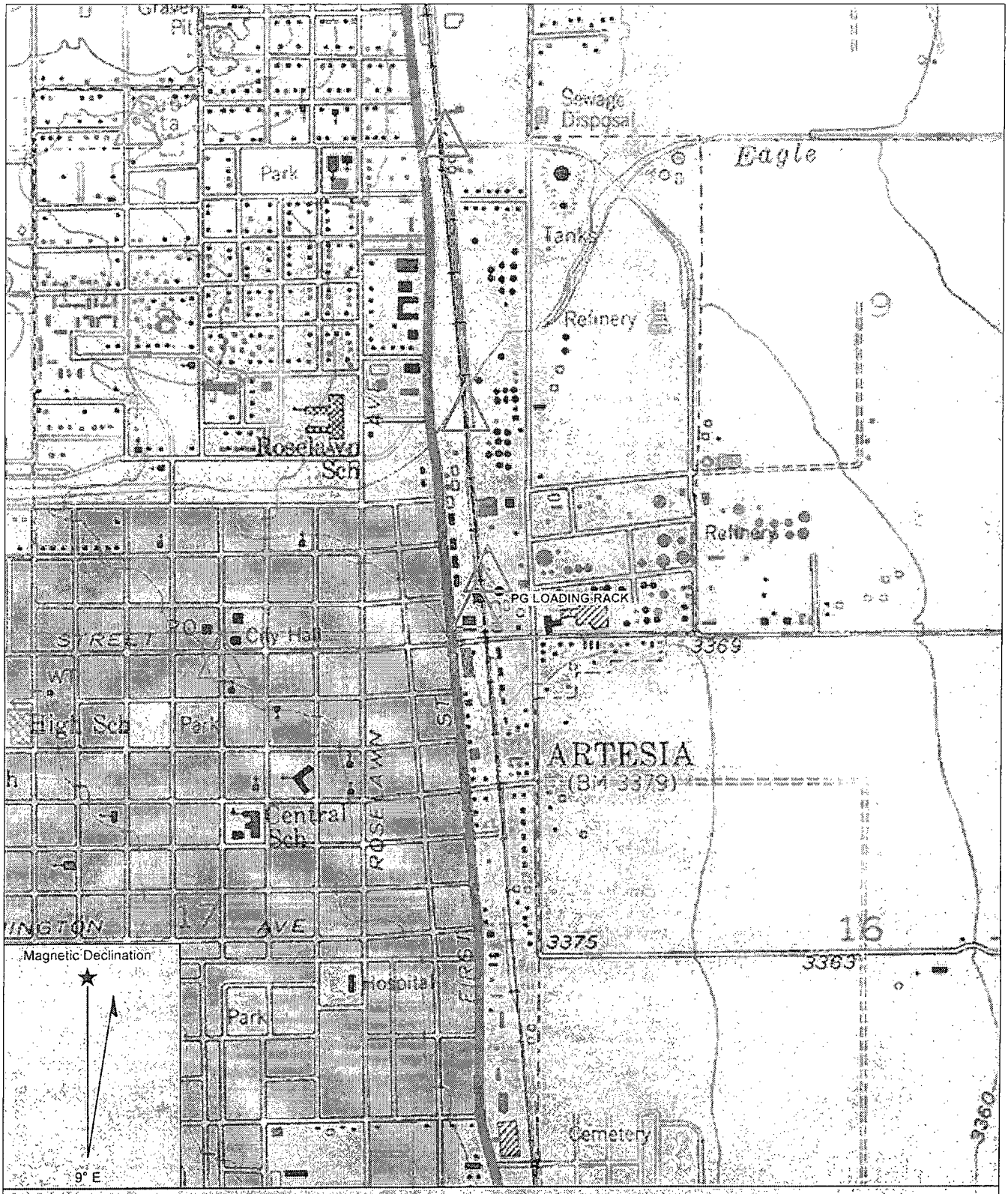
VI. Action Plan

The fuel oil has not migrated to the depth of thirty (30) inches. As a result, the area between the tracks will be covered with new ballast. In addition, two (2) monitor wells will be installed down gradient of the spill area to insure there is no migration to the groundwater in the future. These monitor well will be sampled and analyzed for the constituents of concern semi-annually.

VII. Figures & Appendices

Figure 1 – Vicinity Map
Figure 2 – Site Plan
Figure 3 – Auger Hole Locations
Appendix A – Analytical Results
Appendix B –Site Photos
Appendix C—C-141

Figure 1
Vicinity Map



Name: ARTESIA
Date: 7/15/2009
Scale: 1 inch equals 1000 feet

Location: 032° 50' 37.19" N 104° 23' 47.05" W NAD83

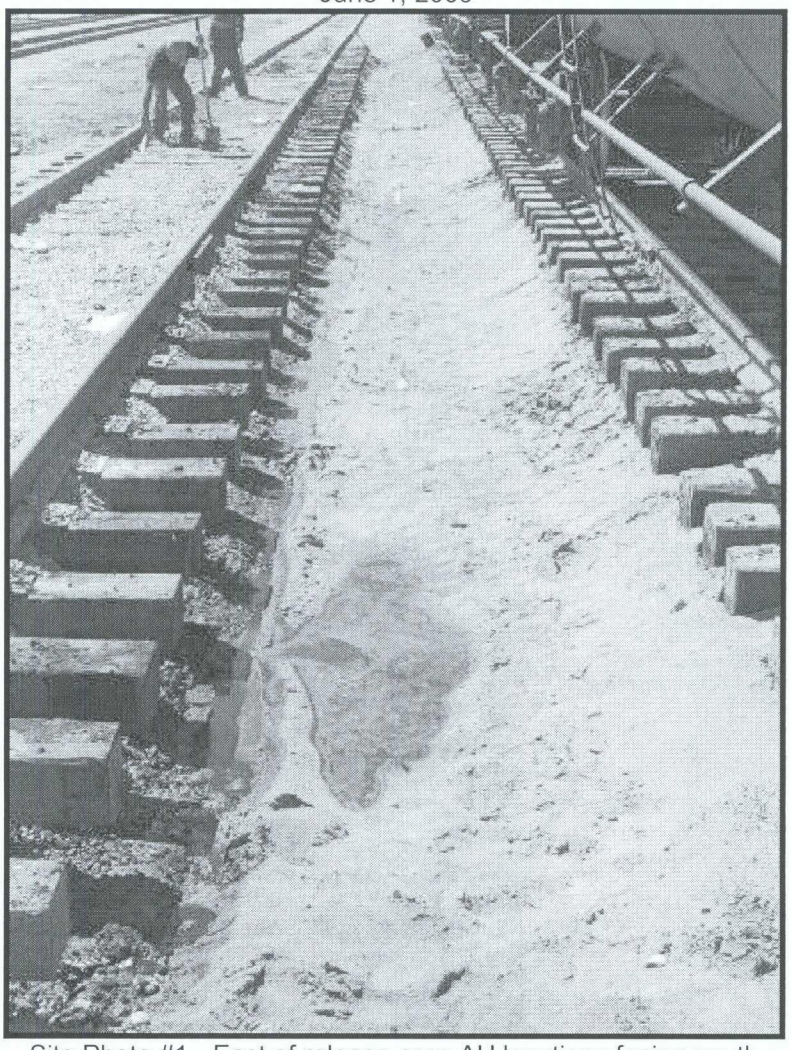
Figure 2
Site Plan


N
W
E
S
E Chisum Ave
285
PG LOADING RACK
Approximately 794'
Texas Ave
N Freeman Ave
305 ft
Image © 2009 DigitalGlobe
© 2009 Tele Atlas
©2009 Google
Imagery Date: Jan 29, 2004
32°50'38.25" N 104°23'46.75" W elev 3370 ft
Eye alt 4429 ft

Figure 3
Auger Hole Locations

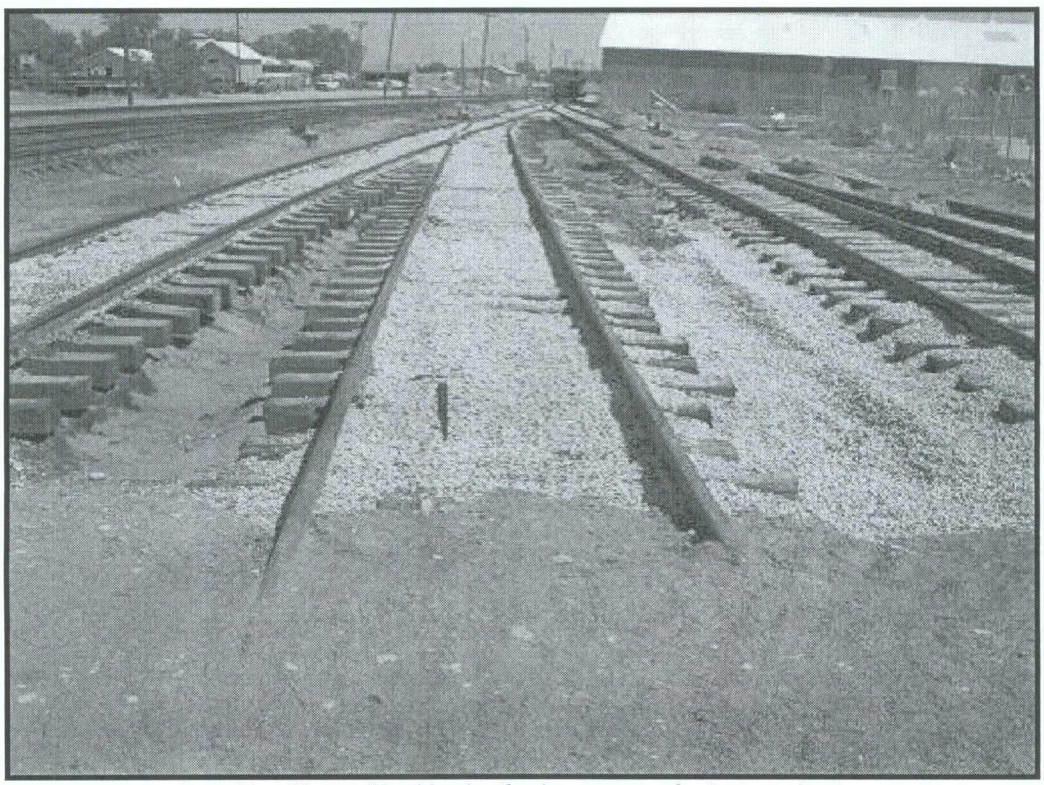
Appendix A
Analytical Results

Appendix B
Site Photos

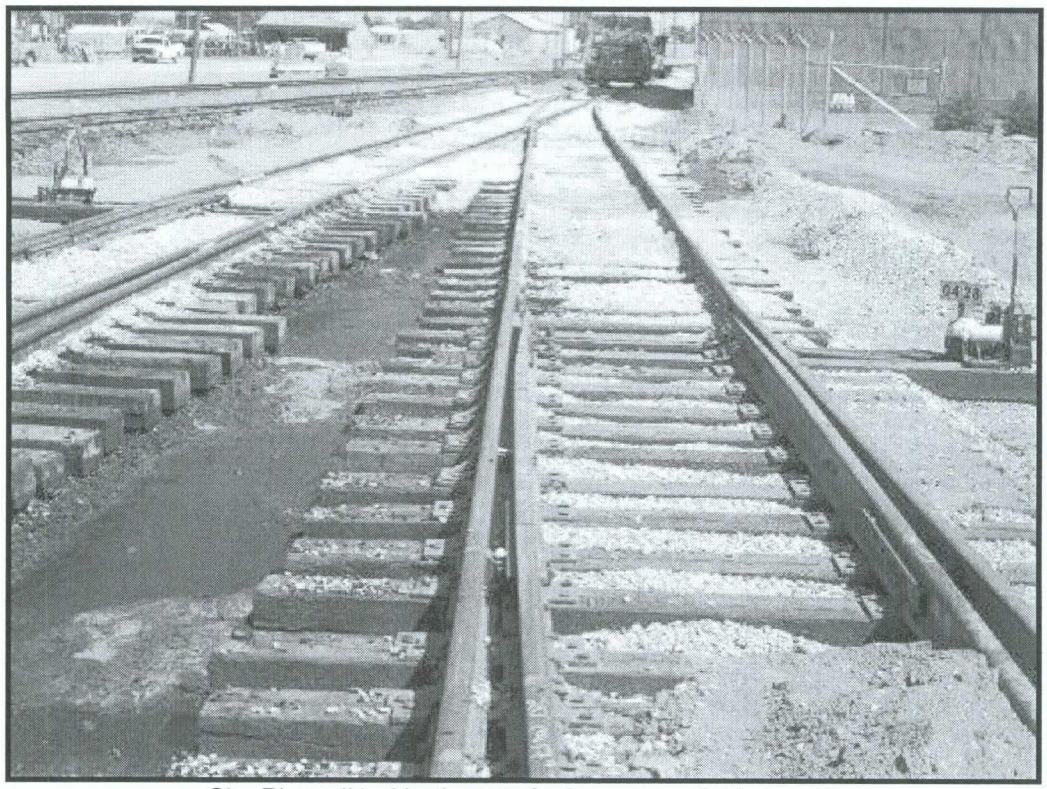


Site Photo #1 - East of release area AH locations facing south

Site Photo #2 - North of release area facing north



Site Photo #3 - North of release area facing north

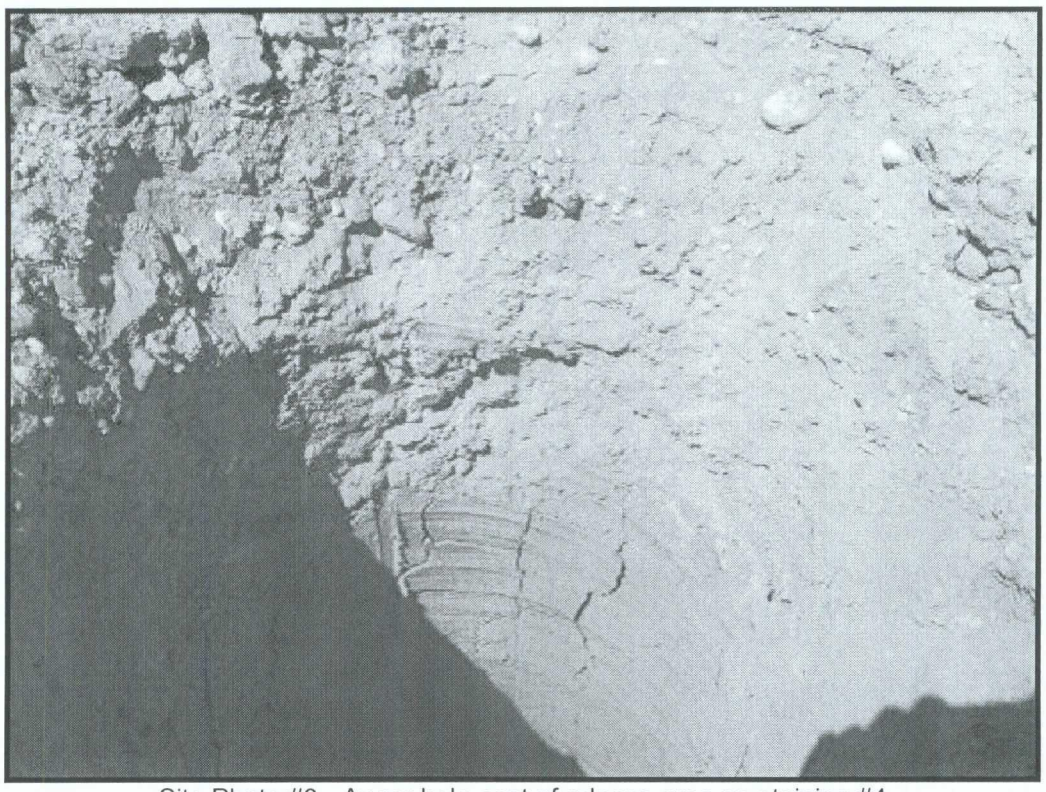


Site Photo #4 - Northeast of release area facing north

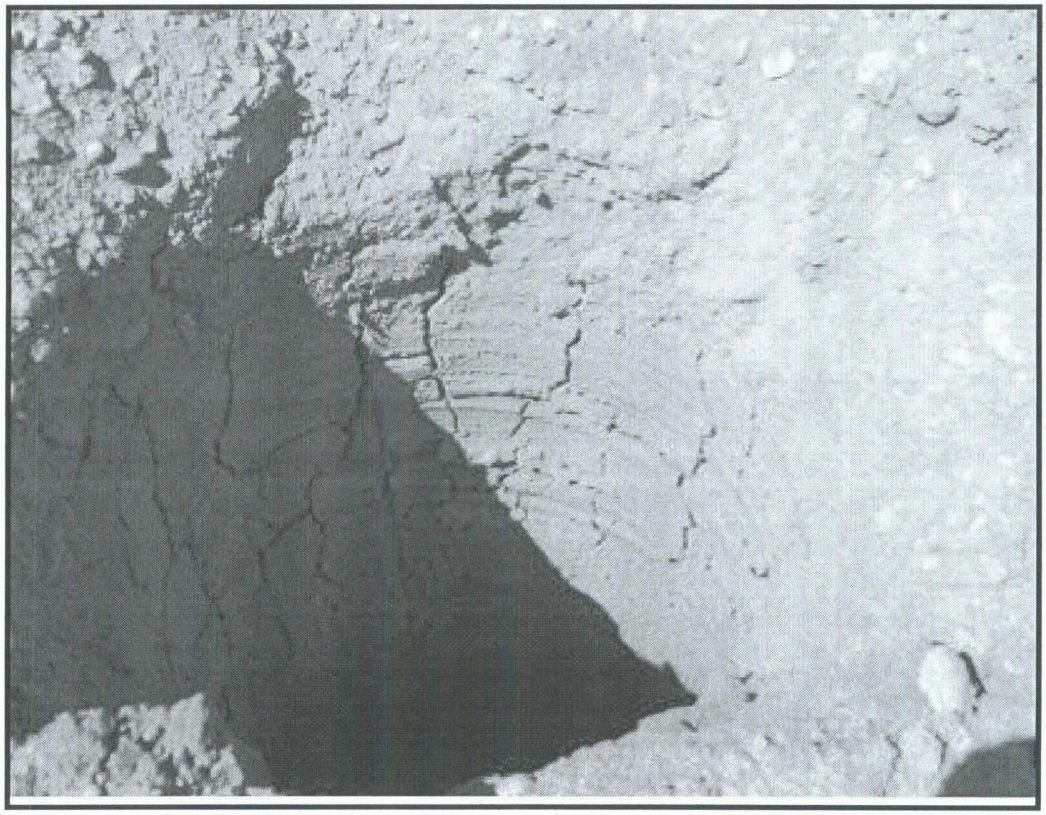
Site Photo #5 - Auger hole east of release area no staining #1

Site Photo #6 - Auger hole east of release area no staining #2

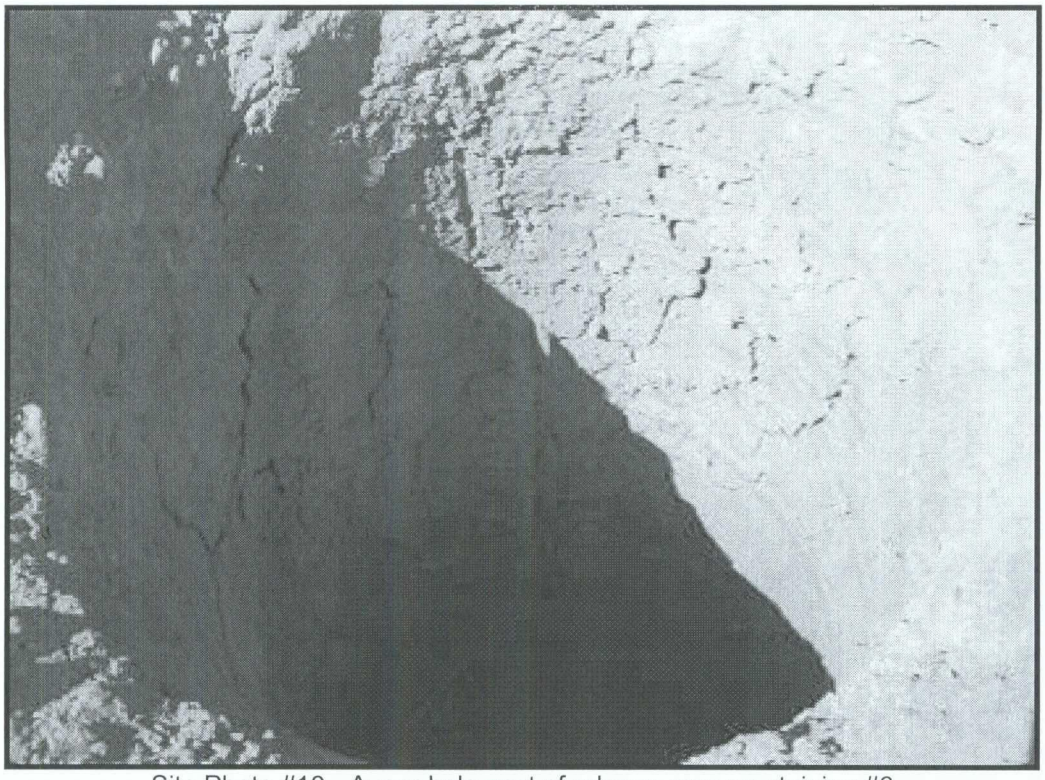
Site Photo #7 - Auger hole east of release area no staining #3



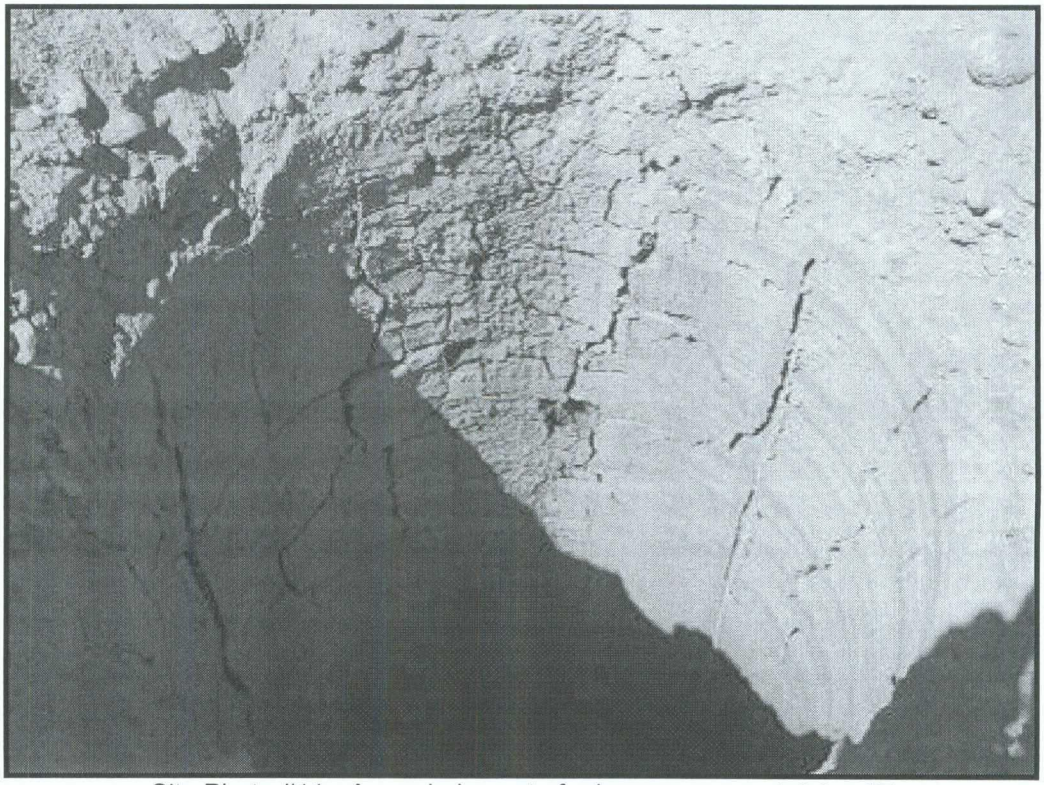
Site Photo #8 - Auger hole east of release area no staining #4



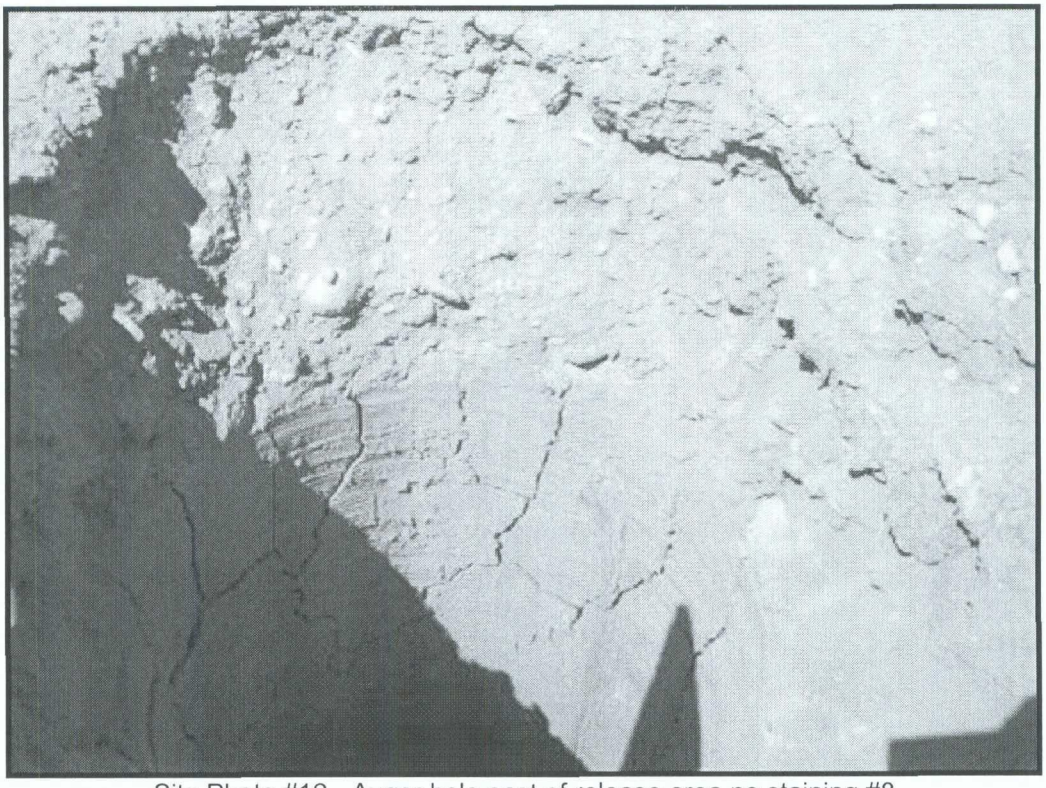
Site Photo #9 - Auger hole east of release area no staining #5



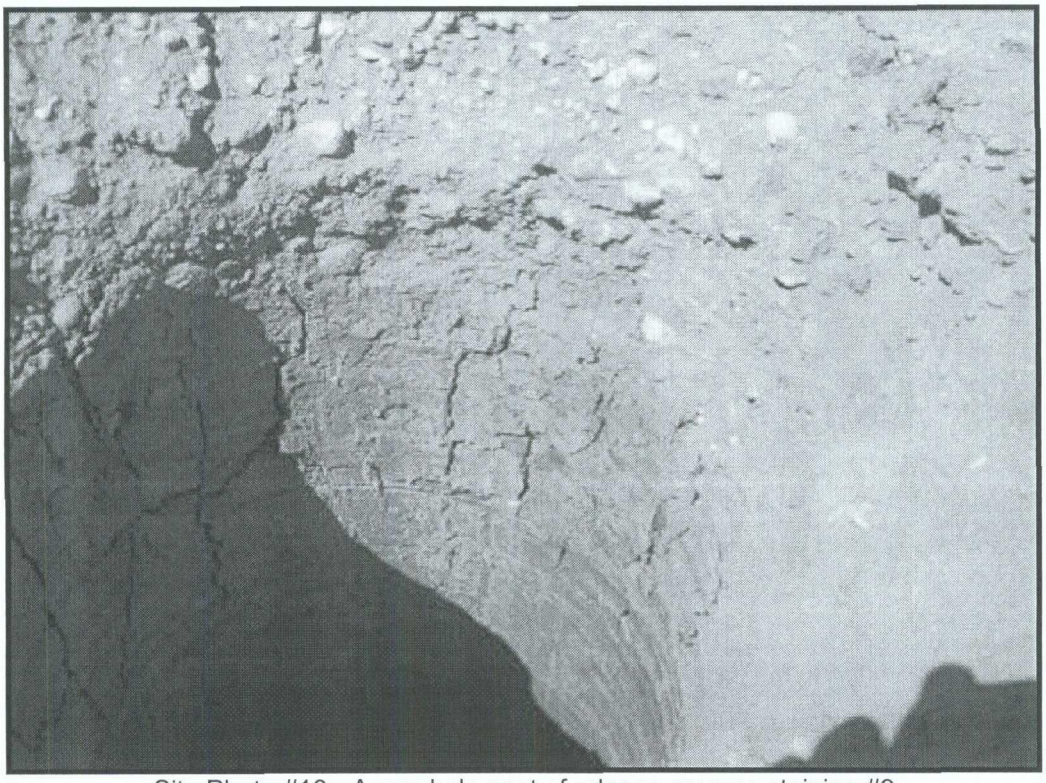
Site Photo #10 - Auger hole east of release area no staining #6



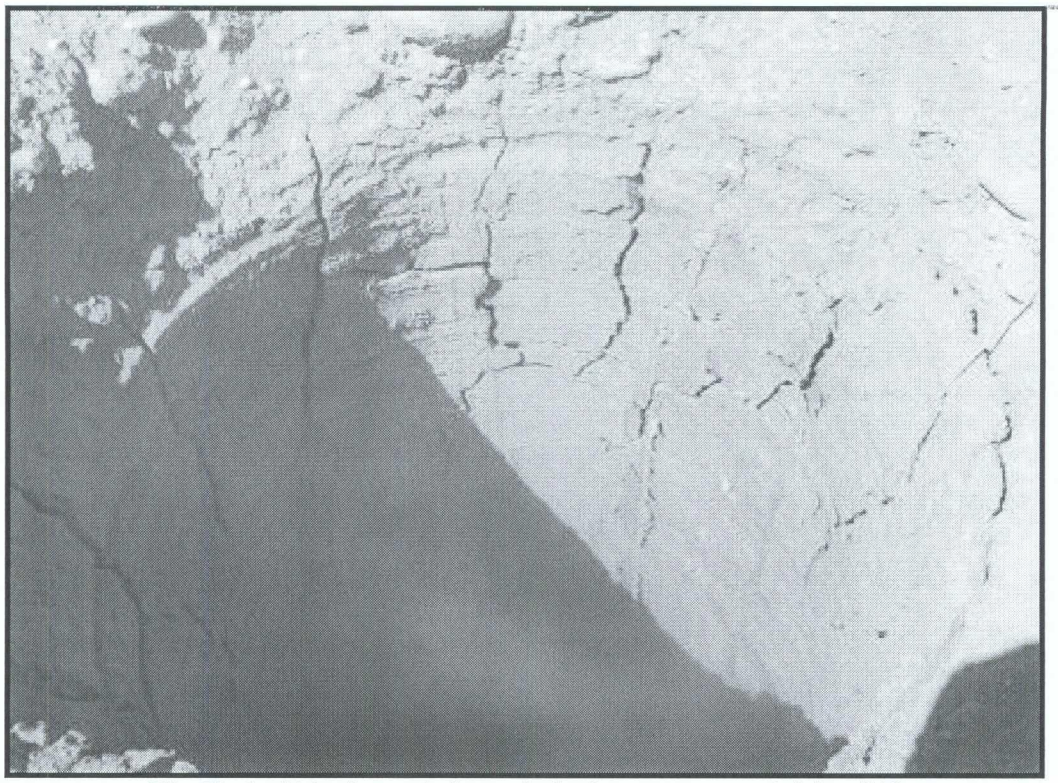
Site Photo #11 - Auger hole east of release area no staining #7



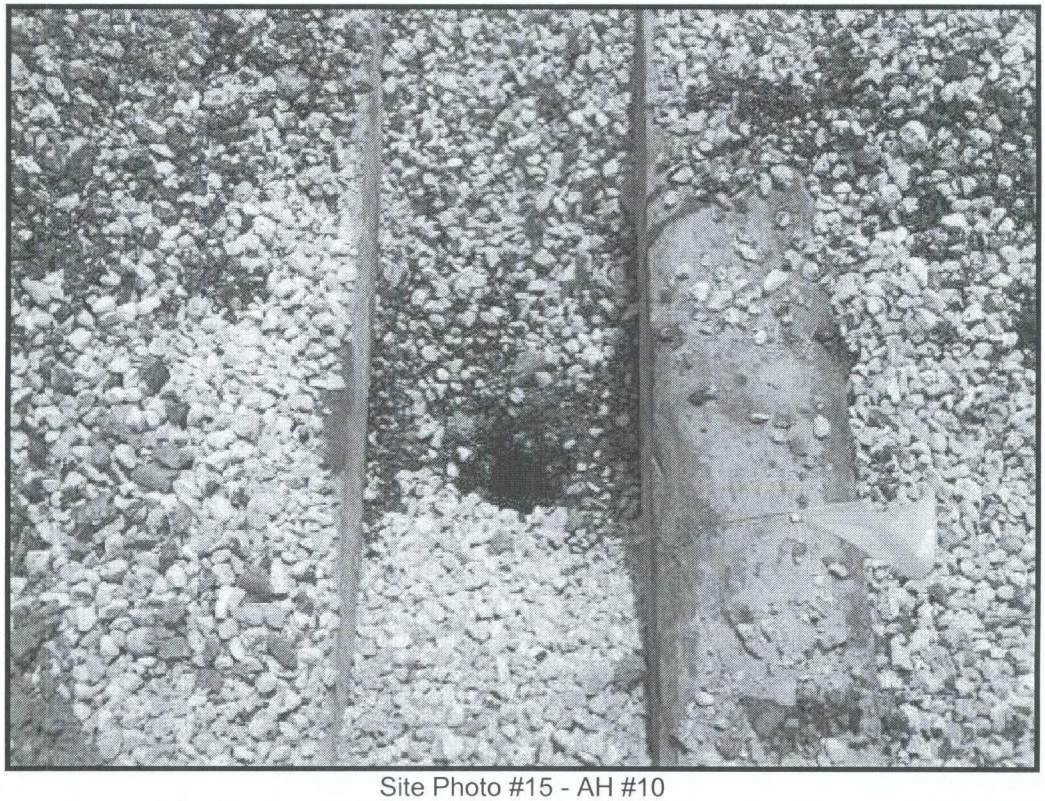
Site Photo #12 - Auger hole east of release area no staining #8



Site Photo #13 - Auger hole east of release area no staining #9

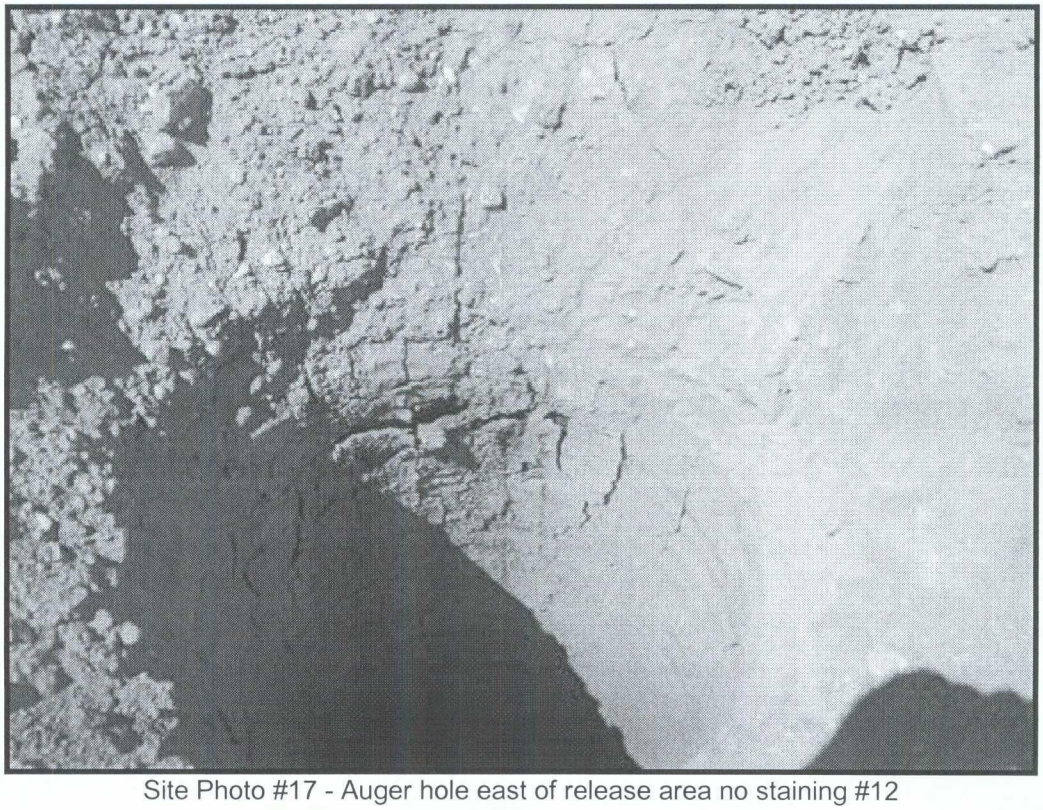


Site Photo #14 - Auger hole east of release area no staining #10

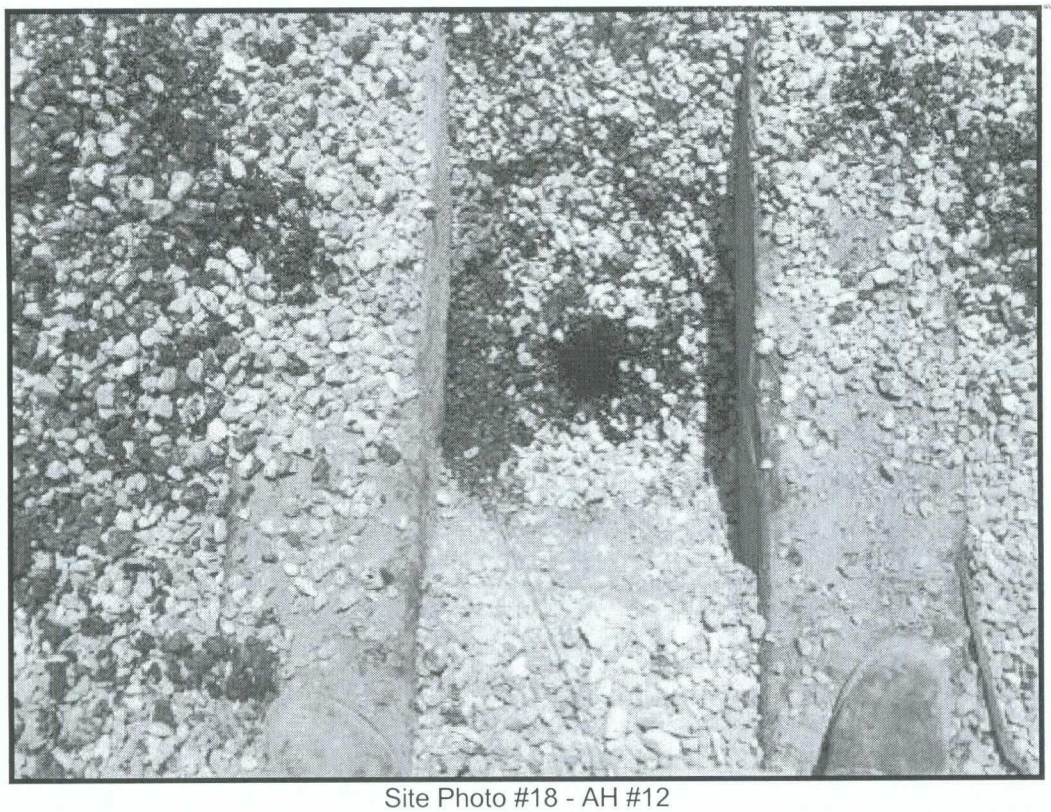


Site Photo #15 - AH #10

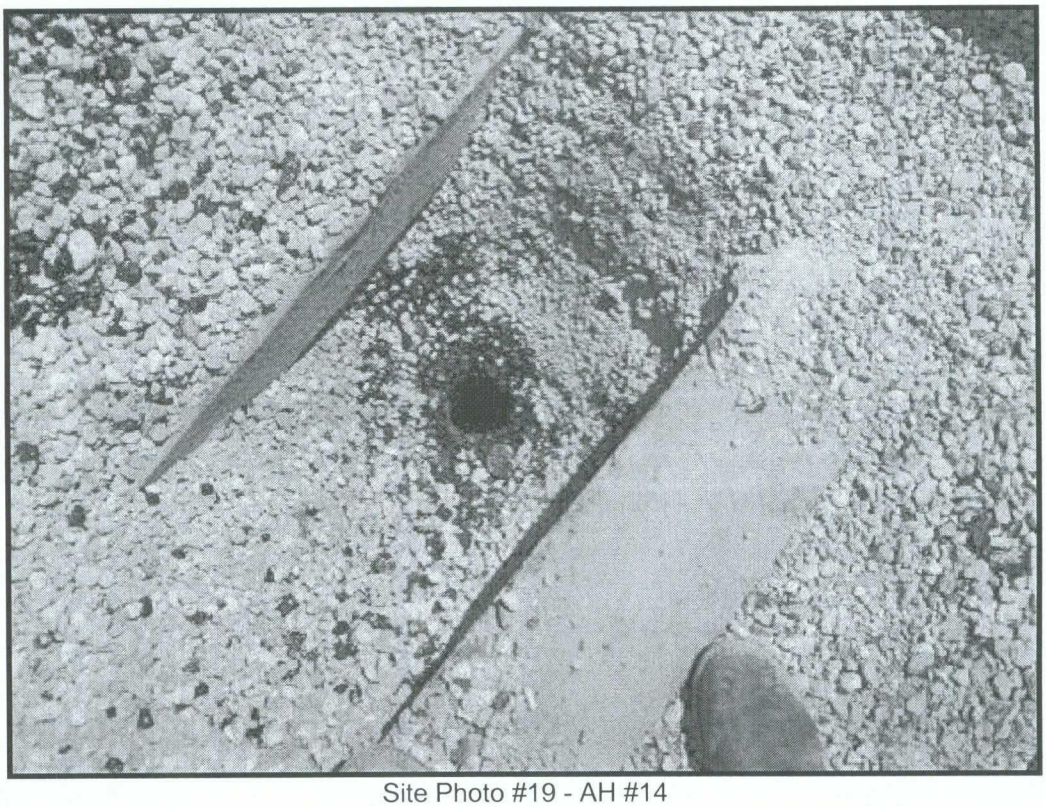
Site Photo #16 - Auger hole east of release area no staining #11



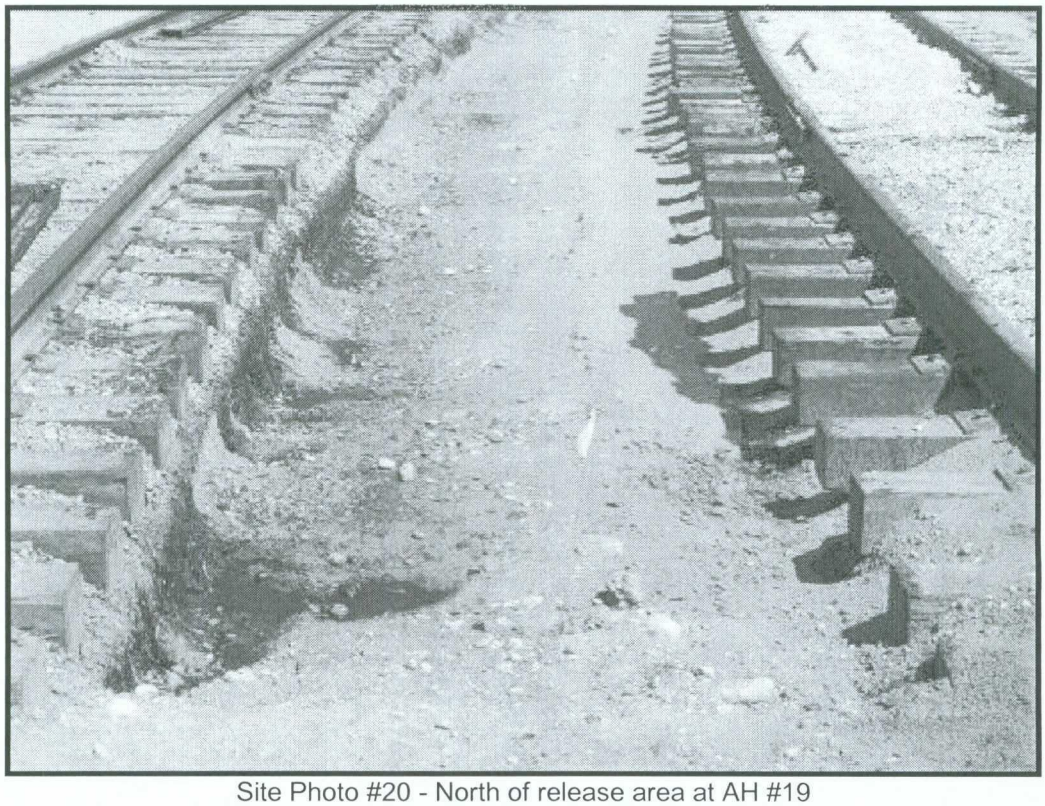
Site Photo #17 - Auger hole east of release area no staining #12



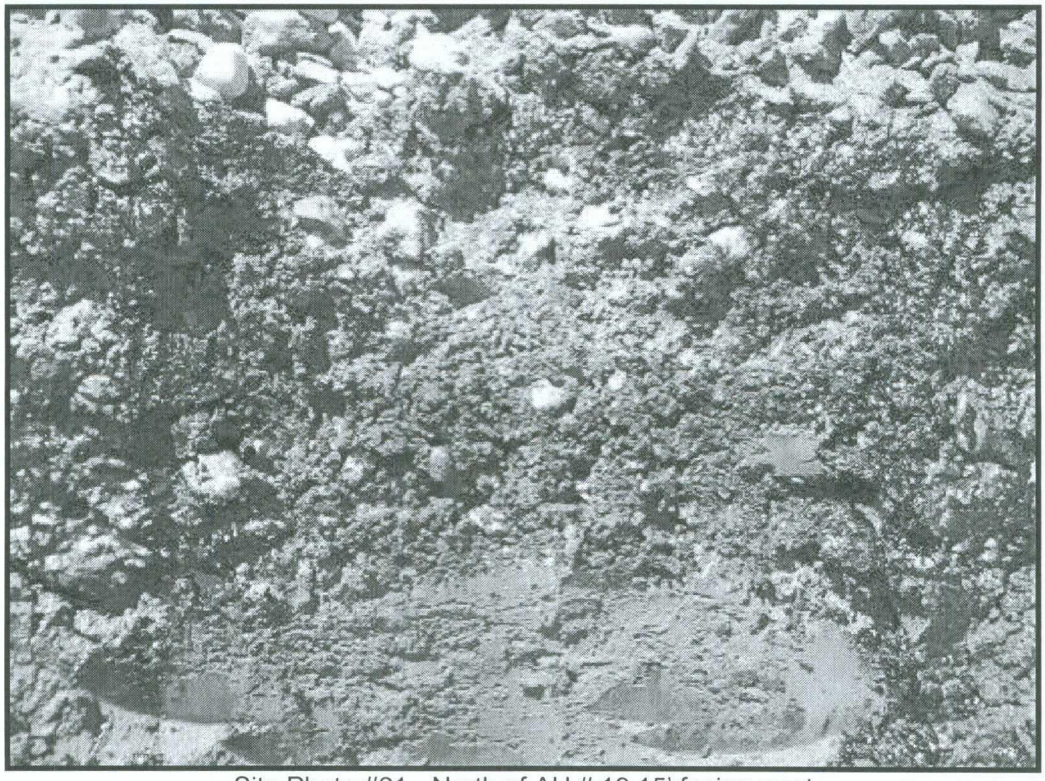
Site Photo #18 - AH #12



Site Photo #19 - AH #14

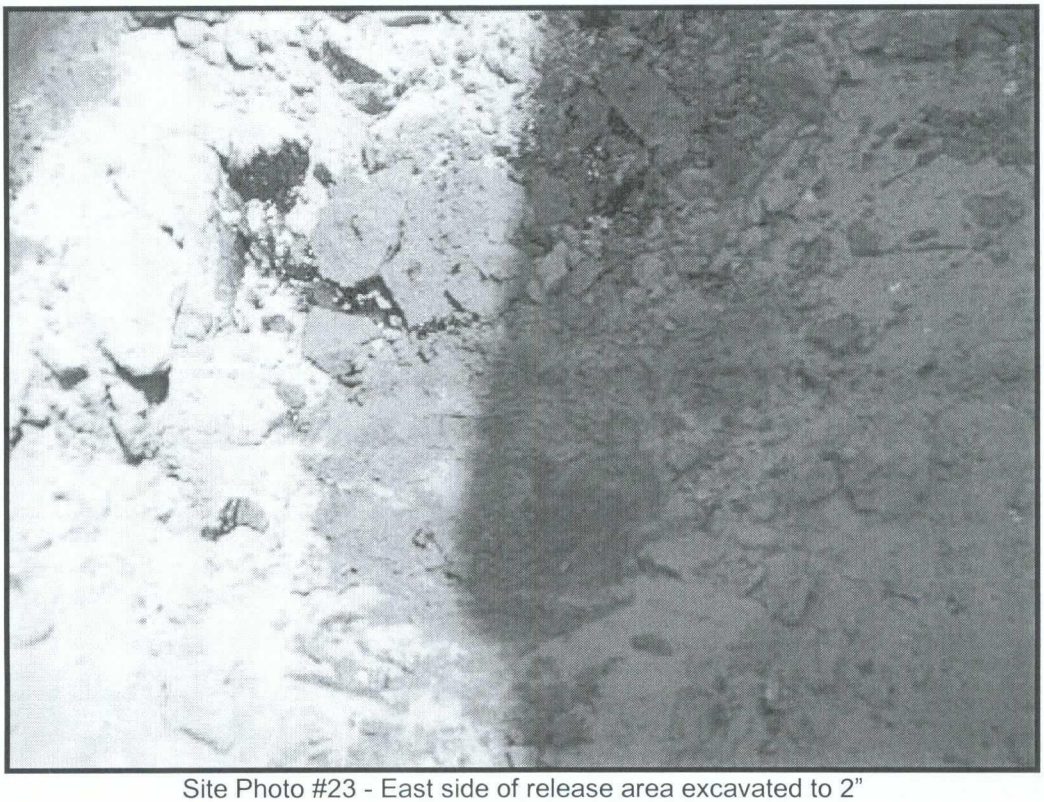


Site Photo #20 - North of release area at AH #19



Site Photo #21 - North of AH # 19 15' facing west

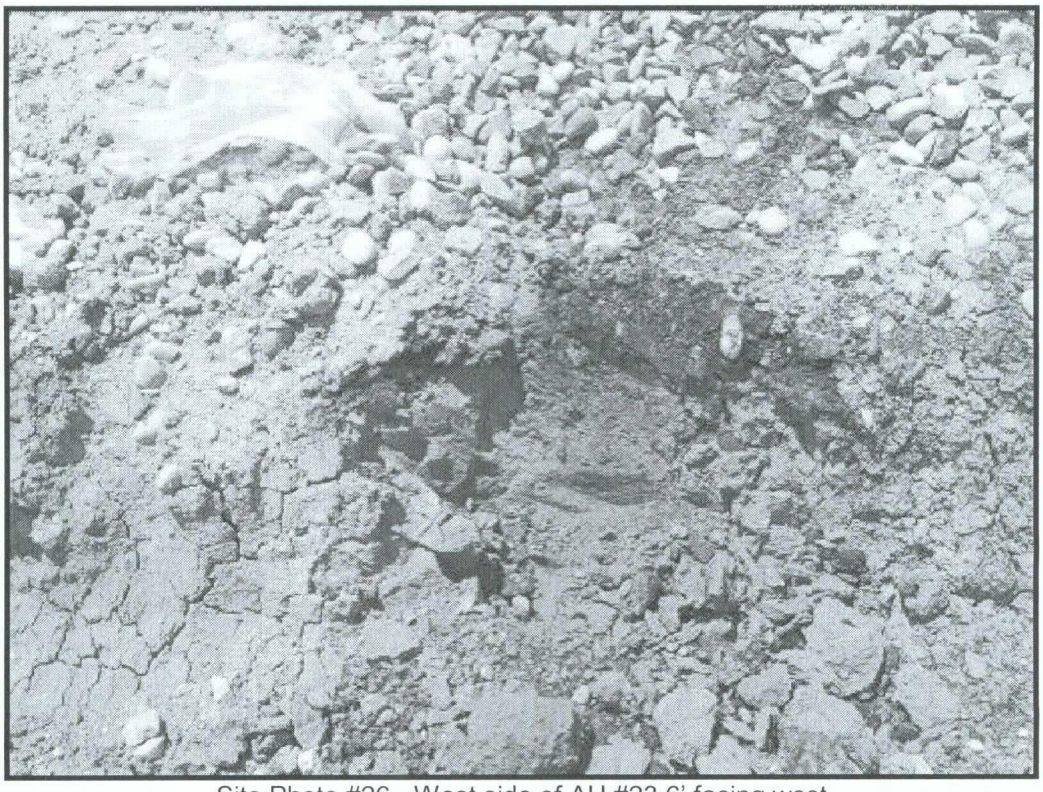
Site Photo #22 - East side of release area in sand



Site Photo #23 - East side of release area excavated to 2"

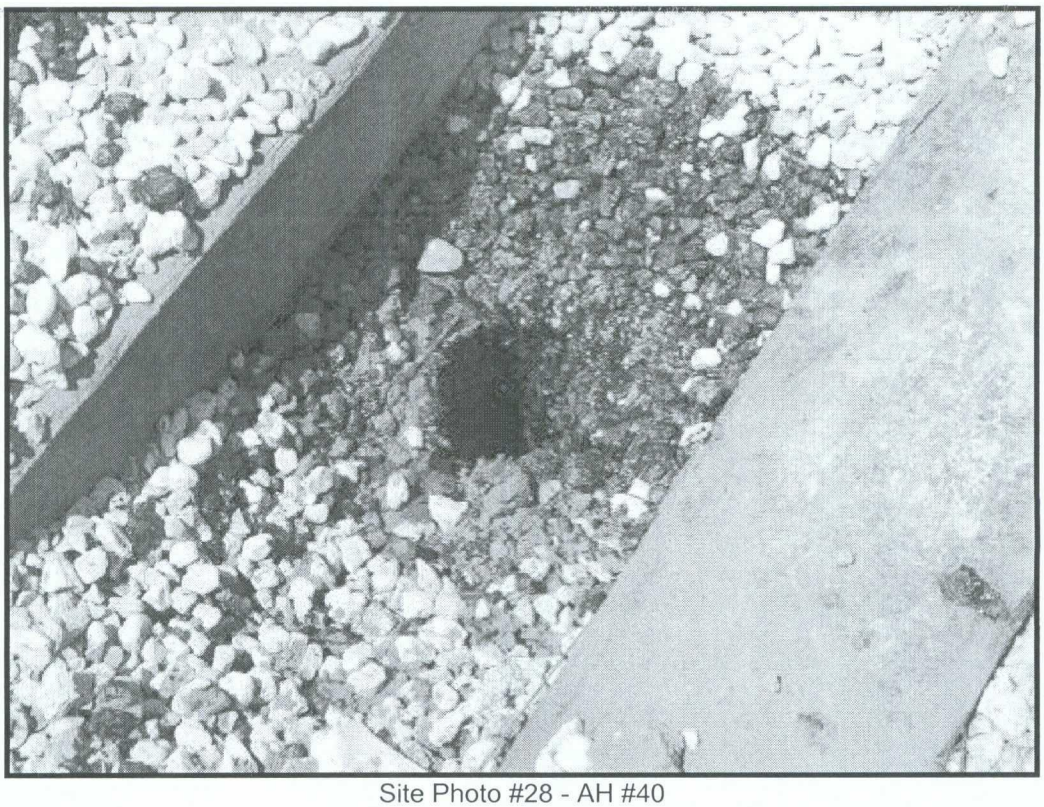
Site Photo #24 - Eastside of release area excavated 2”

Site Photo #25 - North of AH #19 100’ facing west

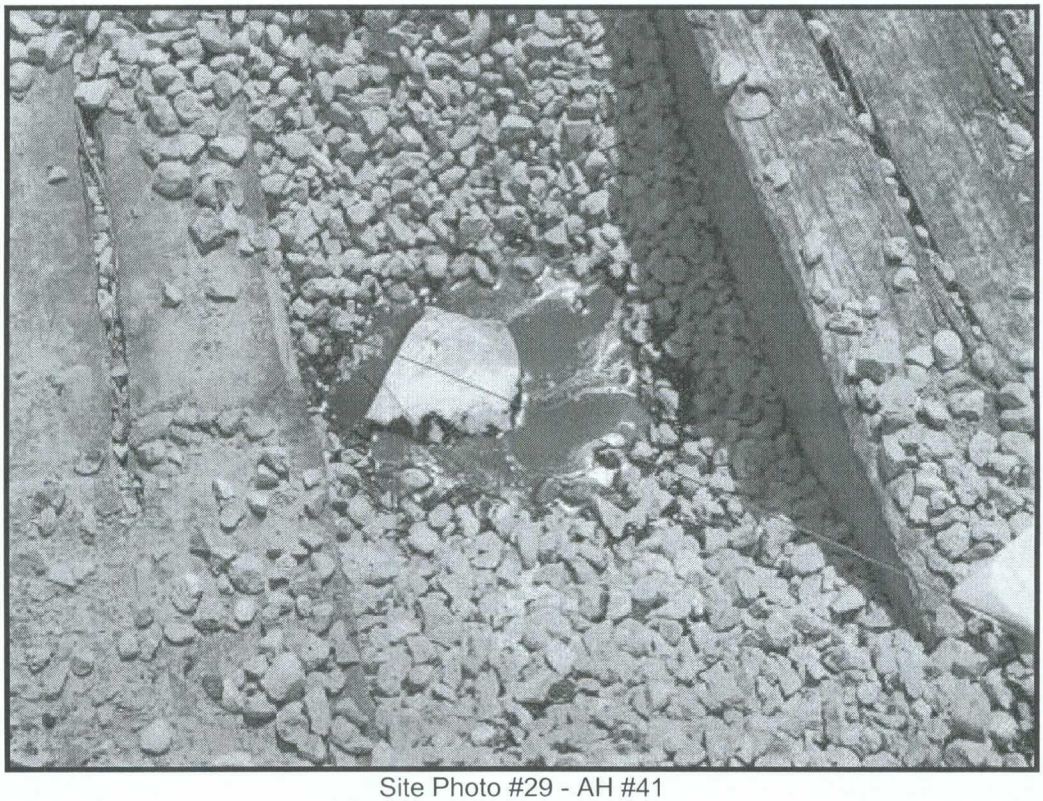


Site Photo #26 - West side of AH #23 6' facing west

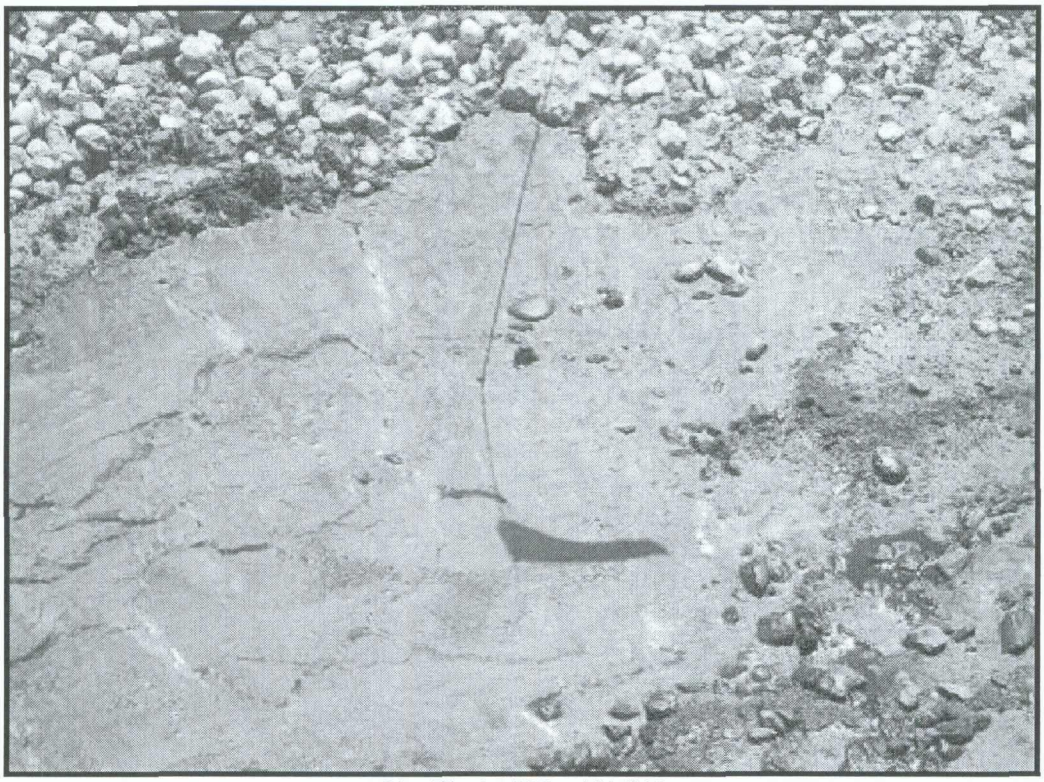
Site Photo #27 - West of AH #29 facing west



Site Photo #28 - AH #40



Site Photo #29 - AH #41



Site Photo #30 - AH #42

34003

NON-HAZARDOUS WASTE MANIFEST

PART I: Generator Navajo Ref.
Address
City/State Artesia NM

( ) Telephone No.

ORGINATION OF WASTE:

Operations Center _____ Permit No. _____

Property Name _____
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	
DESCRIPTION / NOTES					
PG Asphalt 12 Yds					

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Signature of Generator's Authorized Agent

Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name S. Brothers
Address 512 Texas
City/State Artesia NM

Telephone No.

4
Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Greg Shumay
Signature of Transporter's Agent

6-10-09
Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name Controlled Recovery, Inc.
Address P.O. Box 388
City/State Hobbs, N.M. 88241-0388

(575) 393-1079
Telephone No.

www.crihobbs.com
E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent

Date and Time Received

THE COLOR PRINTER #7520-A

34006

NON-HAZARDOUS WASTE MANIFEST

PART I: Generator Navajo Refin
Address
City/State Artesia NM

( ) Telephone No.

ORGINATION OF WASTE:

Operations Center _____ Permit No. _____

Property Name _____
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	
DESCRIPTION / NOTES					
PG Ashpalt 12 Yds.					
Disc					

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Signature of Generator's Authorized Agent — Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name S. Brothers
Address 512 Texas
City/State Artesia NM

Telephone No.
4
Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Greg Thurman
Signature of Transporter's Agent — 6-10-09 Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.** **(575) 393-1079** Telephone No.
Address **P.O. Box 388**
City/State **Hobbs, N.M. 88241-0388** **www.crihobbs.com** E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent — 6-10-09 Date and Time Received

NON-HAZARDOUS WASTE MANIFEST

27451

PART I: Generator Navajo Refining Co. LLC
Address PO Box 159
City/State Artesia, NM 88211-0159
(575) 748-3311
Telephone No.

ORGINATION OF WASTE:

Operations Center Artesia
Permit No. NMD048918817

Property Name
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	

DESCRIPTION / NOTES

~~Concrete & Debris~~ ~~12 yds~~
ASPHALT 10,705

P.O. Rock

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Signature of Generator's Authorized Agent

5-29-09
Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name ~~S Brothers~~
Address
City/State
Telephone No.
Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Signature of Transporter's Agent

5-29-09
Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.**
Address **P.O. Box 388**
City/State **Hobbs, N.M. 88241-0388**
(575) 393-1079
Telephone No.
www.crihobbs.com
E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent

5-29-09
Date and Time Received

NON-HAZARDOUS WASTE MANIFEST

33290

PART I: Generator Navajo Refining Co. LLC
Address PO Box 159
City/State Artesia, NM 88211-0159
(575-748-3311
Telephone No.

ORGINATION OF WASTE:

Operations Center Artesia Permit No. NMD048918817

Property Name
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	
DESCRIPTION / NOTES					
~~Barrels~~		~~Barrels~~			
ASPHALT		10YDS			
NOE Rule					

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Signature of Generator's Authorized Agent

5-29-07
Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name S Brothers
Address
City/State
Telephone No.
Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Signature of Transporter's Agent

5.29.07
Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.**
Address **P.O. Box 388**
City/State **Hobbs, N.M. 88241-0388**
(575) 393-1079
Telephone No.
www.crihobbs.com
E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent

5-29-07
Date and Time Received

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST 33701

PART I: Generator Navajo Ref.
Address
City/State Artesia NM

( ) Telephone No.

ORGINATION OF WASTE:

Operations Center ______ Permit No. ______

Property Name ______
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	

DESCRIPTION / NOTES

PG - Asphalt 12 Yds

PG-R ... 74

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Signature of Generator's Authorized Agent

Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name S. Brothers
Address
City/State Artesia NM

Telephone No.

4
Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Greg Shuman
Signature of Transporter's Agent

5/29/09
Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name Controlled Recovery, Inc.
Address P.O. Box 388
City/State Hobbs, N.M. 88241-0388

(575) 393-1079
Telephone No.

www.crihobbs.com
E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

[signature]
Signature of Facility Agent

5-29-09
Date and Time Received

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST

33705

PART I: Generator Navajo
Address
City/State Artesia NM

( ) Telephone No.

ORGINATION OF WASTE:

Operations Center _____ Permit No. _____

Property Name _____
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	
DESCRIPTION / NOTES					
PG Asphalt 124 yds					
Bm RB-29467					

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

_____ Signature of Generator's Authorized Agent

_____ Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name S. Brothers
Address
City/State Artesia NM

Telephone No.

4 Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Greg Slum Signature of Transporter's Agent

5/30/09 Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.**
Address **P.O. Box 388**
City/State **Hobbs, N.M. 88241-0388**

(575) 393-1079 Telephone No.

www.crihobbs.com E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

_____ Signature of Facility Agent

5-30-09 1:23 PM Date and Time Received

NON-HAZARDOUS WASTE MANIFEST

33707

PART I: Generator Navajo Ref

Address

City/State Artesia NM

( ) Telephone No.

ORGINATION OF WASTE:

Operations Center _____ Permit No. _____

Property Name _____
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	
DESCRIPTION / NOTES					
PG Ashpalt 12 Yds					
B. no II R-40					

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

_____ Signature of Generator's Authorized Agent

_____ Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name S. Brothers West

Address

City/State Artesia NM

_____ Telephone No.

4 Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Greg Shuman Signature of Transporter's Agent

6-1-09 Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.**

Address **P.O. Box 388**

City/State **Hobbs, N.M. 88241-0388**

(575) 393-1079 Telephone No.

www.crihobbs.com E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

_____ Signature of Facility Agent

1-1-09 Date and Time Received

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST

33706

PART I: Generator Navajo Ref
Address
City/State Artesia NM

( ) Telephone No.

ORGINATION OF WASTE:

Operations Center _____ Permit No. _____

Property Name _____
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	
DESCRIPTION / NOTES					
PG Ashpalt 12 yds					
Bill # RB29143					

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

_____ Signature of Generator's Authorized Agent

_____ Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name S. Brothers
Address
City/State Artesia NM

_____ Telephone No.

4 Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Craig Shuman Signature of Transporter's Agent

6/1-09 Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.**
Address **P.O. Box 388**
City/State **Hobbs, N.M. 88241-0388**

(575) 393-1079 Telephone No.

www.crihobbs.com E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

_____ Signature of Facility Agent

6-1-09 Date and Time Received

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST

33267

PART I: Generator Navajo Ref.
Address ____
City/State Artesia, NM

( ) ____
Telephone No.

ORGINATION OF WASTE:

Operations Center ____ Permit No. ____

Property Name ____
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	

DESCRIPTION / NOTES

PG Ashpalt 12 Yds
Bn Yard

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

____ Signature of Generator's Authorized Agent

____ Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name S. Brothers Waste
Address ____
City/State Artesia NM

____ Telephone No.

4 Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Greg Sherman
Signature of Transporter's Agent

5/27/09
Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name Controlled Recovery, Inc.
Address P.O. Box 388
City/State Hobbs, N.M. 88241-0388

(575) 393-1079
Telephone No.

www.crihobbs.com
E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

[illegible signature]
Signature of Facility Agent

5-27-09
Date and Time Received

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST

33212

PART I: Generator Navajo Ref.
Address
City/State Artesia NM

( ) Telephone No.

ORGINATION OF WASTE:

Operations Center _____ Permit No. _____

Property Name _____
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	
DESCRIPTION / NOTES					
PG Asphalt					
Bin # R2870RT					

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Signature of Generator's Authorized Agent — Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name S Brothers
Address
City/State Artesia NM

Telephone No.
4/
Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Greg Shimer
Signature of Transporter's Agent

6-8-09
Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.**
Address **P.O. Box 388**
City/State **Hobbs, N.M. 88241-0388**

(575) 393-1079
Telephone No.
www.crihobbs.com
E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent

6/8/09 6:24 AM
Date and Time Received

THE COLOR PRINTER #7520-A

NON-HAZARDOUS WASTE MANIFEST

33218

PART I: Generator Navajo Refining Co. LLC

Address PO Box 159

City/State Artesia, NM 88211-0159

(575) 748-3311
Telephone No.

ORGINATION OF WASTE:

Operations Center Artesia Permit No. NMD048918817

Property Name _____
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	

DESCRIPTION / NOTES

Asphalt
~~Cont. Soil 12 yds~~ 10 yds
DG Rock

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Signature of Generator's Authorized Agent

Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name S Brothers

Address _____

City/State _____

Telephone No.

2
Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Signature of Transporter's Agent

6-11-09
Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.**

Address **P.O. Box 388**

City/State **Hobbs, N.M. 88241-0388**

(575) 393-1079
Telephone No.

www.crihobbs.com
E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent

Date and Time Received

34080

NON-HAZARDOUS WASTE MANIFEST

PART I: Generator Navajo Refining Co. LLC

Address PO Box 159

City/State Artesia, NM 88211-0159

(575-748-3311
Telephone No.

ORGINATION OF WASTE:

Operations Center Artesia Permit No. NMD048918817

Property Name _____
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	
DESCRIPTION / NOTES					
Asphalt	10 yds				
~~Trash & Debris~~	~~1 yards~~				
PG Rack					

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Signature of Generator's Authorized Agent

Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name S Brothers

Address _____

City/State _____

Telephone No.

2
Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Signature of Transporter's Agent

17
6-19-09
Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.**

Address **P.O. Box 388**

City/State **Hobbs, N.M. 88241-0388**

(575) 393-1079
Telephone No.

www.crihobbs.com
E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent

Date and Time Received

THE COLOR PRINTER #7520-A

34085

NON-HAZARDOUS WASTE MANIFEST

PART I: Generator Navajo Refining Co. LLC

Address PO Box 159 (575-748-3311) Telephone No.

City/State ~~Artesia, NM 88211-0159~~

ORGINATION OF WASTE:

Operations Center Artesia Permit No. NMD048918817

Property Name _____
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids	_____	Tank Bottoms	_____	Exempt Fluids	_____
Completion Fluids	_____	Gas Plant Waste	_____	C117 No.	_____
Contaminated Soil	_____	Other Materials	_____	Pit No.	_____

DESCRIPTION / NOTES

Asphalt 10 yds

~~Trash & Debris~~ ~~10 yds~~

AG Rack Bone yard

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Carrie Hernandez
Signature of Generator's Authorized Agent

_____
Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name S Brothers

Address _____ _____ Telephone No.

City/State _____ 2 Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Signature of Transporter's Agent

6-17-09
Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.** **(575) 393-1079** Telephone No.

Address **P.O. Box 388**

City/State **Hobbs, N.M. 88241-0388** **www.crihobbs.com** E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent

Date and Time Received

NON-HAZARDOUS WASTE MANIFEST

27450

PART I: Generator Navajo Refining Co. LLC
Address PO Box 159
City/State Artesia, NM 88211-0159

(575) 748-3311
Telephone No.

ORGINATION OF WASTE:

Operations Center Artesia

Permit No. NMD048918817

Property Name _____
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	

DESCRIPTION / NOTES

~~Concrete Debris~~ 12 yds
Cont Soil
RC. Rust

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Signature of Generator's Authorized Agent

7.6.09
Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name ~~S Brothers~~
Address _____
City/State _____

Telephone No.

Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Signature of Transporter's Agent

7.6.09
Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.**
Address **P.O. Box 388**
City/State **Hobbs, N.M. 88241-0388**

(575) 393-1079
Telephone No.

www.crihobbs.com
E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent

7.6.09
Date and Time Received

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Navajo Refining Co. LLC	Contact: Aaron Strange
Address: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311
Facility Name: Artesia Plant	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release: Diesel	Volume of Release: 45 barrels	Volume Recovered: 40 barrels
Source of Release: Diesel coalescer drain near the Tank 843 sump	Date and Hour of Occurrence: 12/17/09 ~ 23:40	Date and Hour of Discovery: 12/17/09 ~ 23:42
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom? NA	
By Whom? NA	Date and Hour: NA	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
On 12/17/09 at ~ 23:54 operators discovered a diesel spill near the Tank 834 sump. The Shift Foreman thought the problem was associated with the diesel coalescer. A vacuum truck was called and recovered ~ 40 barrels of standing liquid. The contaminated soil will be placed in a roll-off bin and tested for disposal.

Describe Area Affected and Cleanup Action Taken.*
On 12/17/09 at ~ 23:40 operators discovered a diesel spill near the Tank 834 sump. The Shift Foreman thought the problem was associated with the diesel coalescer. The spill occurred and remained within the tank berm. A vacuum truck was called and recovered ~ 40 barrels of standing liquid. The contaminated soil will be placed in a roll-off bin and tested for disposal.

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: Aaron Strange	OIL CONSERVATION DIVISION	
Printed Name: Aaron Strange	Approved by District Supervisor:	
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: aaron.strange@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 12/18/09 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Navajo Refining Co. LLC	Contact: Aaron Strange
Address: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311
Facility Name: Artesia Plant	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude 32.847169 **Longitude** -104.391115

NATURE OF RELEASE

Type of Release: Diesel	Volume of Release: 5 to7 barrels	Volume Recovered: ~ 5 barrels mixed with rain water
Source of Release: Holly Energy Partners (HEP) flange leak on the pig trap at the Four Corners (4-C) manifold at the Artesia Refinery.	Date and Hour of Occurrence: 12/23/09 ~ 21:35	Date and Hour of Discovery: 12/23/09 ~ 21:35
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? National Response Center (NRC) Incident Report # 927024	
By Whom? Lori Clowe (with HEP)	Date and Hour: 12/24/09 ~ 00:22	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.* NA

Describe Cause of Problem and Remedial Action Taken.*
On 12/23/09 at ~ 21:35 Ed Fourlines (HEP operator) discovered mist/spray coming from a flange on pig trap at the 12" Four Corners pipeline at the Artesia Refinery. The Flange gasket failed spraying diesel onto the ground and into the fire water pond. The pipeline was shut down. A vacuum truck removed the standing liquid and sorbent pads were used to absorb the diesel on the fire water pond. The ground was wet and covered with puddles of rain water. The diesel (on top of the puddles of rain water) along with rain water was removed with the vacuum truck. Approximately 5 barrels of diesel mixed with rain water was recovered. HEP remove ~ 2 yards of gravel/soil and sorbent pads. We will be monitoring the area for signs of stained soil as the ground dries out and will collect bottom hole samples. Navajo will dispose of the contaminated soil. The reason for the flange gasket failure is unknown HEP reported this spill to the NRC due to the pipeline being DOT regulated.

Describe Area Affected and Cleanup Action Taken.*
On 12/23/09 at ~ 21:35 Ed Fourlines (HEP operator) discovered mist/spray coming from a flange on pig trap at the 12" Four Corners pipeline at the Artesia Refinery. The Flange gasket failed spraying diesel onto the ground and into the fire water pond. The pipeline was shut down. A vacuum truck removed the standing liquid and sorbent pads were used to absorb the diesel on the fire water pond. The ground was wet and covered with puddles of rain water. The diesel (on top of the puddles of rain water) along with rain water was removed with the vacuum truck. Approximately 5 barrels of diesel mixed with rain water was recovered. HEP remove ~ 2 yards of gravel/soil and sorbent pads. We will be monitoring the area for signs of stained soil as the ground dries out and will collect bottom hole samples. Navajo will dispose of the contaminated soil. The reason for the flange gasket failure is unknown. HEP reported this spill to the NRC due to the pipeline being DOT regulated.

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: Aaron Strange	OIL CONSERVATION DIVISION	
Printed Name: Aaron Strange	Approved by District Supervisor:	
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: aaron.strange@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 1/07/10 Phone: 575-703-5057		

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Navajo Refining Co.	Contact Darrell Moore
Address 501 E Main Artesia, NM 88211	Telephone No. 575-746-5281
Facility Name Navajo Refining	Facility Type Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release Wash Water	Volume of Release 50 bbls	Volume Recovered 35 bbls
Source of Release Wash water from units during turn around	Date and Hour of Occurrence2/1/09 9am	Date and Hour of Discovery 2/1/09 9:30am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Carl Chavez and Mike Bratcher	
By Whom? Darrell Moore	Date and Hour 2/2/09 8 am	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
During Turn around at the plant, a section of sewer was bypassed for work related projects. This section was "pumped around" using a diaphragm pump. The diaphragm pump failed and allowed the water to back up and overflow. The water ran to a low spot just north east of the Alky Unit and was sucked up using a vacuum truck.

Describe Area Affected and Cleanup Action Taken.*
Area affected is northeast of the Alky Unit and encompasses about 50 yds long and 15 yds wide. The standing water was sucked up using a vacuum truck and contaminated soil will be removed.

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: Darrell Moore	OIL CONSERVATION DIVISION
Printed Name: Darrell Moore	Approved by District Supervisor:
Title: Environmental Manager for Water and Waste	Approval Date: / Expiration Date:
E-mail Address: Darrell.moore@hollycorp.com	Conditions of Approval: / Attached ☐
Date: February 4, 2009 Phone: 575-746-5281	

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Navajo Refining Co. LLC	Contact: Aaron Strange
Address: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311
Facility Name: Artesia Plant	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release: Hazardous Waste Spill K-170	Volume of Release: ~ 290 barrels	Volume Recovered: ~ 230 barrels
Source of Release: FRAC Tank for the T-63 cleaning project.	Date and Hour of Occurrence: 5/5/09 ~ 09:00	Date and Hour of Discovery: 5/5/09 ~ 09:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? OCD Brad Jones, NMED Hope Monzeqlio, & NRC Jacquelyn Arsenaual (NRC Incident # 904760)	
By Whom? Aaron Strange	Date and Hour: 5/5/09 OCD-09:38, NMED-09:40, & NRC-09:45	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
On 5/6/09 the Navajo Vacuum truck parked to start unloading a FRAC tank being used for the T-63 tank cleaning project. This tank contained the listed hazardous waste; K-170. While pumping the vacuum truck started to roll backward and damaged to tank header. K-170 started to spill onto the ground. The spill was contained with soil berms. A small ditch was created to channel the waste into a hose and pump. The waste (still leaking) was being pumped into T-63. Another vacuum truck was brought in to pump out remaining waste and minimize the amount spilled onto the ground. Approximately 290 barrels of waste spilled onto the ground.

Describe Area Affected and Cleanup Action Taken.*
The spill accrued within the T-834 tank berm on the south east side of T-834. The standing liquid/sludge was pumped directly into T-63 and also removed with a vacuum truck. The contaminated soil was dug up and place into hard top roll-off bins for disposal as the listed hazardous waste K-170.

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: Aaron Strange	OIL CONSERVATION DIVISION	
Printed Name: Aaron Strange	Approved by District Supervisor:	
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: aaron.strange@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 5/7/09 Phone: 575-746-5451		

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☑ Initial Report ☐ Final Report

Name of Company: Navajo Refining Co. LLC	Contact: Aaron Strange
Address: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311
Facility Name: Artesia Plant	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release: Hazardous Waste Spill K-170	Volume of Release: ~ 45 barrels	Volume Recovered: ~ 38 barrels
Source of Release: North manhole on T-63	Date and Hour of Occurrence: 5/11/09 ~ 13:30	Date and Hour of Discovery: 5/11/09 ~ 13:30
Was Immediate Notice Given? ☑ Yes ☐ No ☐ Not Required	If YES, To Whom? OCD Brad Jones, NMED Hope Monzeqlio, & NRC Petty Officer Smith (NRC Incident # 905298)	
By Whom? Aaron Strange	Date and Hour: 5/11/09 OCD-15:12, NMED-15:23, & NRC-15:28	
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
On 5/11/09 at ~ 13:30 the manhole on the north side of T-63 was opened and listed hazardous waste K-170 spilled onto the ground. The tank was gauged through the top manhole on the south side of the tank and was said to be low enough to open one of the manholes at the base of the tank. A vacuum truck removed the standing liquid and returned it to the refining process. The contaminated soil was dug up and place into a hard top roll-off bin for disposal as the listed hazardous waste K-170.

Describe Area Affected and Cleanup Action Taken.*
The spill accrued within the T-63 tank berm on the north west side of T-63. A vacuum truck removed the standing liquid. The contaminated soil was dug up and place into a hard top roll-off bin for disposal as the listed hazardous waste K-170.

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: Aaron Strange	OIL CONSERVATION DIVISION	
Printed Name: Aaron Strange	Approved by District Supervisor:	
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: aaron.strange@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 5/11/09 Phone: 575-746-5451		

* Attach Additional Sheets If Necessary

Box K-82

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NMD048918817
2. Page 1 of: 1
3. Emergency Response Phone: [illegible]
4. Manifest Tracking Number: 004092134 JJK

GENERATOR

5. Generator's Name and Mailing Address: NAVAJO REFINING, 501 E MAIN, ARTESIA NM 88210
Generator's Site Address (if different than mailing address)
Generator's Phone: 575-746-5281

6. Transporter 1 Company Name: FLUID TRANSPORTS INC
U.S. EPA ID Number: TXD988057931

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: RINECO, PO BOX 729, BENTON AR 72018
U.S. EPA ID Number: ARD981057870
Facility's Phone: 18003774692

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, HAZARDOUS WASTE SOLID, N.O.S., 9, UN3077, PG III, (K170)	1	CM	27880	P	K170		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
PROFILE 090507735 UNLOAD # 165093

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Darrell Moore
Signature: Darrell Moore
Month 05 Day 12 Year 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible]
Signature:
Month 05 Day 12 Year 09

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H061			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: [illegible]
Signature:
Month 5 Day 20 Year 09

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **DESIGNATED FACILITY TO GENERATOR**

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	**4. Manifest Tracking Number**
	[illegible]	1		**004092134 JJK**

5. Generator's Name and Mailing Address: [illegible]
501 E MAIN
[illegible]
Generator's Phone: [illegible]

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: [illegible] Inc
U.S. EPA ID Number: [illegible]

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: RINECO
PO BOX 779
BENTON AR 72018
Facility's Phone: [illegible]
U.S. EPA ID Number: [illegible]

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PGIII, (Y170)	1	CM	27880	P	Y170		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
PROFILE – [illegible]

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Darrell Moore | Signature: [signature] | Month 05 | Day 12 | Year 09

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: ________
Transporter signature (for exports only): Date leaving U.S.: ________

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name | Signature | Month | Day | Year
Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name | Signature | Month | Day | Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

RINECO LAND DISPOSAL RESTRICTIONS NOTIFICATION FORM

Generator: Navajo **EPA ID #** NMD048918817

Manifest Doc. # 009092134 JJK

EPA Codes K170 **Profile #** 09050735 **Line Item** 1.

EPA Waste Codes		Waste Description & Treatment/ Regulatory Subcategory	NON-WASTEWATER	Concentration in mg/l or Technology Code
☐	D001	Ignitable characteristic wastes, except for 261.21(a)(1) High TOC subcategory that are managed Non-CWA/nonCWA equivalent/non class I SDWA systems.		DEACT and meet 268.48 standards or RORGS; or CMBST
☐	D001	High TOC Ignitable characteristic liquids subcategroy based on 40 CFR 261.21(a)(1)-greater than or equal to 10% TOC.		RORGS; or CMBST; or POLYM
☐	D002	Corrosive characteristic wastes that are managed in non-CWA non CWA equivalent, or class / SDWA systems.		DEACT & meet 268.48 standards

D004-D011 Heavy Metals Expressed in Concentrations of mg/l (TCLP) and must meet 268.48 Standards. (NON-WASTEWATER)

☐	D004	Arsenic 5.0	☐	D008	Lead 0.75
☐	D005	Barium 21	☐	D009	Mercury 0.20 low mercury subcategory
☐	D006	Cadmium 0.11	☐	D010	Selenium 5.7
☐	D007	Chromium 0.60	☐	D011	Silver 0.14

D012-D043 Concentrations Expressed in mg/kg, and Must Meet 268.48 Standards. (NON-WASTEWATER)

☐	D012	Endrin 0.13	☐	D024	m-cresol 5.6	☐	D036	Nitorbenzene 14
☐	D013	Lindane 0.066	☐	D025	p-cresol 5.6	☐	D037	Pentachlorophenol 7.4
☐	D014	Methoxychlor 0.18	☐	D026	Cresol Mixed Isomer 11.2	☐	D038	Pyridine 16
☐	D015	Toxaphene 2.6	☐	D027	p-dichlorbenzene 6.0	☐	D039	Tetrachloroethylene 6.0
☐	D016	2,4 D 10	☐	D028	1,2-dichloroethane 6.0	☐	D040	Trichlorethylene 6.0
☐	D017	2,4,5-TP Silvex 7.9	☐	D029	1,1-dichloroethylene 6.0	☐	D041	2,4,5-Trichlorophenol 7.4
☐	D018	Benzene 10	☐	D030	2,4-dinitrotoluene 140	☐	D042	2,4,6-Trichlorophenol 7.4
☐	D019	Carbon Tetrachloride 6.0	☐	D031	Heptachlor & epoxides 0.066	☐	D043	Vinyl Chloride 6.0
☐	D020	Chlordane 0.26	☐	D032	Hexachlorbenzene 10			
☐	D021	Chlorobenzene 6.0	☐	D033	Hexachlorobutadiene 5.6			
☐	D022	Chloroform 6.0	☐	D034	Hexachloroethane 30			
☐	D023	o-cresol 5.6	☐	D035	Methyl Ethyl Ketone 36			

F001-F005 Spent Solvents: concentrations expressed mg/kg (NON-WASTEWATER) **F003-F005 Non-Wastewater spent solvents expressed in mg/l (TCLP)**

☐	Acetone 160	☐	Isobutyl Alcohol 170	☐	Carbon disulfide 4.8
☐	Benzene 10	☐	Methylene Chloride 30	☐	Cyclohexanone 0.75
☐	N-butyl alcohol	☐	Methyl Ethyl Ketone 36	☐	Methanol 0.75
☐	carbontetrachloride 6.0	☐	Methyl Isobutyl Ketone 33		
☐	chlorobenzene 6.0	☐	Nitrobenzene 14		
☐	o-cresol 5.6	☐	Pyridine 16		
☐	m-cresol 5.6	☐	Tetrachloroethylene 6.0		
☐	p-cresol 5.6	☐	Toluene 10		
☐	Cresol mixed isomers 11.2	☐	111-Trichloroethane 6.0		
☐	O-Dichlorobenzene 6.0	☐	112-Trichloroethane 6.0		
☐	Ethyl Acetate 33	☐	112-Trichloro-122-trifluoroethane 30		
☐	Ethyl Benzene 10	☐	Trichloroethylene 6.0		
☐	Ethyl Ether 160	☐	Trichloromonofluoromethane 30		
		☐	Xylene (mixed isomers) 30		

GENERATOR COPY

RINECO LAND SPOSAL RESTRICTIONS NOTIFICAT N FORM

Generator: Navajo EPA ID # NMD048918817

EPA Waste Codes	(NON-WASTEWATER)	Technology Code
☐	U023, U086,U099,U103,U109,U133,U135,U160,U189,U249	CHOXD;CHRED; or CMBST
☐	U246	CHOXD;WETOX; or CMBST
☐	U115	CHOXD; or CMBST
☐	K047	DEACT
☐	F005 (2-Nitropropane, 2-ethaxyethanol),F024,K025,K026,K027,K039,K107, K108,K109,K110,K112,K113,K114,K115,K116,K123,K124,K125,K126, U001,U003,U006,U007,U008,U010,U011,U014,U015,U016,U017,U020, U021,U026,U033,U034,U035,U038,U041,U042,U046,U049,U053,U055, U056,U057,U058,U059,U062,U064,U073,U074,U085,U087,U089,U090, U091,U092,U093,U094,U095,U097,U108,U110,U113,U114,U116,U119, U122,U123,U124,U125,U126,U132,U143,U147,U148,U149,U150,U153, U154,U156,U163,U164,U166,U167,U168,U171,U173,U176,U177,U178, U182,U184,U186,U191,U193,U194,U197,U200,U201,U202,U206,U213, U218,U219,U221,U222,U223,U234,U236,U237,U238,U240,U244,U248, U328,U353,U359	CMBST
☐	K106	RMERC
☐	U134	ADGAS *fb* NEUTR; or NEUTR

f there are any codes not listed on this form that apply to this waste stream, please list the EPA waste code and the treatment standard below.

_____

_____

*Note: Retain one copy for your files, send one copy with your shipment

RINECO
Innovative waste management

P.O. Box 729
Benton, AR 72018
(800) 377-4692
www.rineco.com

Navajo Refining Company
Darrell Moore
P O Box 159
Artesia, NM 88211-0159

06/02/2009

Certificate of Disposal

Navajo Refining Company, Artesia, NM
Manifest # 004092134JJK
Received 5/20/2009

This is to certify that the waste materials received from the above referenced generator and manifest number have been managed and disposed of in accordance with all applicable Federal, State, and Local laws and regulations.

By: Monte J. Dilick

Monte J. Dilick, Vice President of Sales & Marketing

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NMO 0489188217
2. Page 1 of: 1
3. Emergency Response Phone: 505-748-3311
4. Manifest Tracking Number: 004092115 JJK

5. Generator's Name and Mailing Address: NAVAJO REFINING, 501 E MAIN, ARTESIA NM 88210
Generator's Phone: 575-746-5281
Generator's Site Address (if different than mailing address):

6. Transporter 1 Company Name: FLUID TRANSPORTS
U.S. EPA ID Number: TXD 988057931

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: RINECO, P.O. BOX 729, BEATTON AR 72018
Facility's Phone: 800-377-4692
U.S. EPA ID Number: ARD 981057870

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, HAZARDOUS WASTE SOLID, N.O.S., 9, NA 3077, PGIII, (K170)	1	CM	28960	P	K170		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information

PROFILE # 09050735

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Darrell Moore
Signature: Darrell Moore
Month: 05 Day: 22 Year: 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jake Mckenzie
Signature:
Month: 05 Day: 22 Year: 09

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H040			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Whitney Smith
Signature: Whitney Smith
Month: 5 Day: 27 Year: 09

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

RINECO
Innovative waste management

P.O. Box 729
Benton, AR 72018
(800) 377-4692
www.rineco.com

Navajo Refining Company
Darrell Moore
P O Box 159
Artesia, NM 88211-0159

06/09/2009

Certificate of Disposal

Navajo Refining Company, Artesia, NM
Manifest # 004092115JJK
Received 5/27/2009

This is to certify that the waste materials received from the above referenced generator and manifest number have been managed and disposed of in accordance with all applicable Federal, State, and Local laws and regulations.

By: _____

Monte J. Dilick, Vice President of Sales & Marketing

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NMA [illegible]
2. Page 1 of: 1
3. Emergency Response Phone:
4. Manifest Tracking Number: 00409215 JJK

GENERATOR

5. Generator's Name and Mailing Address: [illegible]
Generator's Site Address (if different than mailing address):
Generator's Phone: [illegible]

6. Transporter 1 Company Name: [illegible]
U.S. EPA ID Number: [illegible]

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: [illegible]
U.S. EPA ID Number: NM [illegible]
Facility's Phone: [illegible]

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, Hazardous waste solid, n.o.s., 9, NA 3077, PGIII (K170)	1	CM	25960	P	K170		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information

Profile # 09050735

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: David Mora
Signature: David Mora
Month: 05 Day: 22 Year: 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible]
Signature:
Month: Day: Year:

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month: Day: Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

RINECO LAND DISPOSAL RESTRICTIONS NOTIFICATION FORM

Generator: Navajo EPA ID # NMD048918817

Manifest Doc. # 004092115 JJK

EPA Codes K170 Profile # 090507735 Line Item 1.

EPA Waste Codes		Waste Description & Treatment/ Regulatory Subcategory	NON-WASTEWATER	Concentration in mg/l or Technology Code
☐	D001	Ignitable characteristic wastes, except for 261.21(a)(1) High TOC subcategory that are managed Non-CWA/nonCWA equivalent/non class I SDWA systems.		DEACT and meet 268.48 standards or RORGS; or CMBST
☐	D001	High TOC Ignitable characteristic liquids subcategroy based on 40 CFR 261.21(a)(1)-greater than or equal to 10% TOC.		RORGS; or CMBST; or POLYM
☐	D002	Corrosive characteristic wastes that are managed in non-CWA non CWA equivalent, or class / SDWA systems.		DEACT & meet 268.48 standards

D004-D011 Heavy Metals Expressed in Concentrations of mg/l (TCLP) and must meet 268.48 Standards. (NON-WASTEWATER)

☐	D004	Arsenic 5.0	☐	D008	Lead 0.75
☐	D005	Barium 21	☐	D009	Mercury 0.20 low mercury subcategory
☐	D006	Cadmium 0.11	☐	D010	Selenium 5.7
☐	D007	Chromium 0.60	☐	D011	Silver 0.14

D012-D043 Concentrations Expressed in mg/kg, and Must Meet 268.48 Standards. (NON-WASTEWATER)

☐	D012	Endrin 0.13	☐	D024	m-cresol 5.6	☐	D036	Nitorbenzene 14
☐	D013	Lindane 0.066	☐	D025	p-cresol 5.6	☐	D037	Pentachlorophenol 7.4
☐	D014	Methoxychlor 0.18	☐	D026	Cresol Mixed Isomer 11.2	☐	D038	Pyridine 16
☐	D015	Toxaphene 2.6	☐	D027	p-dichlorbenzene 6.0	☐	D039	Tetrachloroethylene 6.0
☐	D016	2,4 D 10	☐	D028	1,2-dichloroethane 6.0	☐	D040	Trichlorethylene 6.0
☐	D017	2,4,5-TP Silvex 7.9	☐	D029	1,1-dichloroethylene 6.0	☐	D041	2,4,5-Trichlorophenol 7.4
☐	D018	Benzene 10	☐	D030	2,4-dinitrotoluene 140	☐	D042	2,4,6-Trichlorophenol 7.4
☐	D019	Carbon Tetrachloride 6.0	☐	D031	Heptachlor & epoxides 0.066	☐	D043	Vinyl Chloride 6.0
☐	D020	Chlordane 0.26	☐	D032	Hexachlorbenzene 10			
☐	D021	Chlorobenzene 6.0	☐	D033	Hexachlorobutadiene 5.6			
☐	D022	Chloroform 6.0	☐	D034	Hexachloroethane 30			
☐	D023	o-cresol 5.6	☐	D035	Methyl Ethyl Ketone 36			

F001-F005 Spent Solvents: concentrations expressed mg/kg (NON-WASTEWATER) **F003-F005 Non-Wastewater spent solvents expressed in mg/l (TCLP)**

☐	Acetone 160	☐	Isobutyl Alcohol 170	☐	Carbon disulfide 4.8
☐	Benzene 10	☐	Methylene Chloride 30	☐	Cyclohexanone 0.75
☐	N-butyl alcohol	☐	Methyl Ethyl Ketone 36	☐	Methanol 0.75
☐	carbontetrachloride 6.0	☐	Methyl Isobutyl Ketone 33		
☐	chlorobenzene 6.0	☐	Nitrobenzene 14		
☐	o-cresol 5.6	☐	Pyridine 16		
☐	m-cresol 5.6	☐	Tetrachloroethylene 6.0		
☐	p-cresol 5.6	☐	Toluene 10		
☐	Cresol mixed isomers 11.2	☐	111-Trichloroethane 6.0		
☐	O-Dichlorobenzene 6.0	☐	112-Trichloroethane 6.0		
☐	Ethyl Acetate 33	☐	112-Trichloro-122-trifluoroethane 30		
☐	Ethyl Benzene 10	☐	Trichloroethylene 6.0		
☐	Ethyl Ether 160	☐	Trichloromonofluoromethane 30		
		☐	Xylene (mixed isomers) 30		

GENERATOR COPY

RINECO LAND SPOSAL RESTRICTIONS NOTIFICA' N FORM

Generator: Navajo EPA ID # NMD048918817

EPA Waste Codes	(NON-WASTEWATER)	Technology Code
☐	U023, U086,U099,U103,U109,U133,U135,U160,U189,U249	CHOXD;CHRED; or CMBST
☐	U246	CHOXD;WETOX; or CMBST
☐	U115	CHOXD; or CMBST
☐	K047	DEACT
☐	F005 (2-Nitropropane, 2-ethaxyethanol),F024,K025,K026,K027,K039,K107, K108,K109,K110,K112,K113,K114,K115,K116,K123,K124,K125,K126, U001,U003,U006,U007,U008,U010,U011,U014,U015,U016,U017,U020, U021,U026,U033,U034,U035,U038,U041,U042,U046,U049,U053,U055, U056,U057,U058,U059,U062,U064,U073,U074,U085,U087,U089,U090, U091,U092,U093,U094,U095,U097,U108,U110,U113,U114,U116,U119, U122,U123,U124,U125,U126,U132,U143,U147,U148,U149,U150,U153, U154,U156,U163,U164,U166,U167,U168,U171,U173,U176,U177,U178, U182,U184,U186,U191,U193,U194,U197,U200,U201,U202,U206,U213, U218,U219,U221,U222,U223,U234,U236,U237,U238,U240,U244,U248, U328,U353,U359	CMBST
☐	K106	RMERC
☐	U134	ADGAS fb NEUTR; or NEUTR

f there are any codes not listed on this form that apply to this waste stream, please list the EPA waste code and the treatment standard below.

_____

_____

*Note: Retain one copy for your files, send one copy with your shipment

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NMD 048918517
2. Page 1 of: 1
3. Emergency Response Phone: 505-748-3311
4. Manifest Tracking Number: 004092114 JJK

5. Generator's Name and Mailing Address: NAVAJO REFINING, 501 E MAIN, ARTESIA NM 88210
Generator's Site Address (if different than mailing address)
Generator's Phone: 575-746-5281

6. Transporter 1 Company Name: FLUID TRANSPORTS
U.S. EPA ID Number: TXD 988057931

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: PINEO, P.O. BOX 729, BENTON AR 72018
U.S. EPA ID Number: ARD 981057870
Facility's Phone: 800-377-1697

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, HAZARDOUS WASTE SOLID, N.O.S., 9, NA3077, PG III, (K170)	1	CM	Approx 27800	P	K170		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
PROFILE # 090507735 BOX # 29138 165032

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Darrell Moore
Signature: Darrell Moore
Month: 05 Day: 22 Year: 09

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: BOB STECKERT
Signature:
Month: 05 Day: 22 Year: 09
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H061			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Marie LaBeau
Signature:
Month: 5 Day: 29 Year: 09

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **DESIGNATED FACILITY TO GENERATOR**

RINECO
Innovative waste management

P.O. Box 729
Benton, AR 72018
(800) 377-4692
www.rineco.com

Navajo Refining Company
Darrell Moore
P O Box 159
Artesia, NM 88211-0159

06/10/2009

Certificate of Disposal

Navajo Refining Company, Artesia, NM
Manifest # 004092114JJK
Received 5/28/2009

This is to certify that the waste materials received from the above referenced generator and manifest number have been managed and disposed of in accordance with all applicable Federal, State, and Local laws and regulations.

By: _____

Monte J. Dilick, Vice President of Sales & Marketing

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
[illegible]	1		004092114 JJK

5. Generator's Name and Mailing Address: [illegible]

Generator's Site Address (if different than mailing address)

Generator's Phone: [illegible]

6. Transporter 1 Company Name: [illegible] — U.S. EPA ID Number: [illegible]

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: [illegible] P.O. Box 779 [illegible] — U.S. EPA ID Number: [illegible]

Facility's Phone: [illegible]

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. [illegible]	1	CM	27800	P	[illegible]
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

Profile # 09050735 Box # 29138

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Darrell Moore	[signature]	05	22	09

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

	Printed/Typed Name	Signature	Month	Day	Year
Transporter 1	Bob Seifert	[signature]	05	22	09
Transporter 2					

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

RINECO LAND SPOSAL RESTRICTIONS NOTIFICAT N FORM

Generator: Navajo **EPA ID #** NMD048918517

Manifest Doc. # 004092114JJK

EPA Codes K170 **Profile #** 090507735 **Line Item** 1.

EPA Waste Codes		Waste Description & Treatment/ Regulatory Subcategory	NON-WASTEWATER	Concentration in mg/l or Technology Code
☐	D001	Ignitable characteristic wastes, except for 261.21(a)(1) High TOC subcategory that are managed Non-CWA/nonCWA equivalent/non class I SDWA systems.		DEACT and meet 268.48 standards or RORGS; or CMBST
☐	D001	High TOC Ignitable characteristic liquids subcategroy based on 40 CFR 261.21(a)(1)-greater than or equal to 10% TOC.		RORGS; or CMBST; or POLYM
☐	D002	Corrosive characteristic wastes that are managed in non-CWA non CWA equivalent, or class / SDWA systems.		DEACT & meet 268.48 standards

D004-D011 Heavy Metals Expressed in Concentrations of mg/l (TCLP) and must meet 268.48 Standards. (NON-WASTEWATER)

☐	D004	Arsenic 5.0	☐	D008	Lead 0.75
☐	D005	Barium 21	☐	D009	Mercury 0.20 low mercury subcategory
☐	D006	*Cadmium* 0.11	☐	D010	*Selenium* 5.7
☐	D007	Chromium 0.60	☐	D011	Silver 0.14

D012-D043 Concentrations Expressed in mg/kg, and Must Meet 268.48 Standards. (NON-WASTEWATER)

☐	D012	Endrin 0.13	☐	D024	m-cresol 5.6	☐	D036	Nitorbenzene 14
☐	D013	Lindane 0.066	☐	D025	p-cresol 5.6	☐	D037	Pentachlorophenol 7.4
☐	D014	Methoxychlor 0.18	☐	D026	Cresol Mixed Isomer 11.2	☐	D038	Pyridine 16
☐	D015	Toxaphene 2.6	☐	D027	p-dichlorbenzene 6.0	☐	D039	Tetrachloroethylene 6.0
☐	D016	2,4 D 10	☐	D028	1,2-dichloroethane 6.0	☐	D040	Trichlorethylene 6.0
☐	D017	2,4,5-TP Silvex 7.9	☐	D029	1,1-dichloroethylene 6.0	☐	D041	2,4,5-Trichlorophenol 7.4
☐	D018	Benzene 10	☐	D030	2,4-dinitrotoluene 140	☐	D042	2,4,6-Trichlorophenol 7.4
☐	D019	Carbon Tetrachloride 6.0	☐	D031	Heptachlor & epoxides 0.066	☐	D043	Vinyl Chloride 6.0
☐	D020	Chlordane 0.26	☐	D032	Hexachlorbenzene 10			
☐	D021	Chlorobenzene 6.0	☐	D033	Hexachlorobutadiene 5.6			
☐	D022	*Chloroform* 6.0	☐	D034	*Hexachloroethane* 30			
☐	D023	o-cresol 5.6	☐	D035	Methyl Ethyl Ketone 36			

F001-F005 Spent Solvents: *concentrations expressed mg/kg* (NON-WASTEWATER) **F003-F005 Non-Wastewater spent solvents** *expressed in mg/l (TCLP)*

☐	Acetone 160	☐	Isobutyl Alcohol 170	☐	Carbon disulfide 4.8
☐	Benzene 10	☐	Methylene Chloride 30	☐	Cyclohexanone 0.75
☐	N-butyl alcohol	☐	Methyl Ethyl Ketone 36	☐	Methanol 0.75
☐	carbontetrachloride 6.0	☐	Methyl Isobutyl Ketone 33		
☐	chlorobenzene 6.0	☐	Nitrobenzene 14		
☐	o-cresol 5.6	☐	Pyridine 16		
☐	m-cresol 5.6	☐	Tetrachloroethylene 6.0		
☐	p-cresol 5.6	☐	Toluene 10		
☐	Cresol mixed isomers 11.2	☐	111-Trichloroethane 6.0		
☐	O-Dichlorobenzene 6.0	☐	112-Trichloroethane 6.0		
☐	Ethyl Acetate 33	☐	112-Trichloro-122-trifluoroethane 30		
☐	Ethyl Benzene 10	☐	Trichloroethylene 6.0		
☐	Ethyl Ether 160	☐	Trichloromonofluoromethane 30		
		☐	Xylene (mixed isomers) 30		

GENERATOR COPY

RINECO LAND SPOSAL RESTRICTIONS NOTIFICA N FORM

Generator: Navajo EPA ID # NMD048918817

EPA Waste Codes	(NON-WASTEWATER)	Technology Code
☐	U023, U086,U099,U103,U109,U133,U135,U160,U189,U249	CHOXD;CHRED; or CMBST
☐	U246	CHOXD;WETOX; or CMBST
☐	U115	CHOXD; or CMBST
☐	K047	DEACT
☐	F005 (2-Nitropropane, 2-ethaxyethanol),F024,K025,K026,K027,K039,K107, K108,K109,K110,K112,K113,K114,K115,K116,K123,K124,K125,K126, U001,U003,U006,U007,U008,U010,U011,U014,U015,U016,U017,U020, U021,U026,U033,U034,U035,U038,U041,U042,U046,U049,U053,U055, U056,U057,U058,U059,U062,U064,U073,U074,U085,U087,U089,U090, U091,U092,U093,U094,U095,U097,U108,U110,U113,U114,U116,U119, U122,U123,U124,U125,U126,U132,U143,U147,U148,U149,U150,U153, U154,U156,U163,U164,U166,U167,U168,U171,U173,U176,U177,U178, U182,U184,U186,U191,U193,U194,U197,U200,U201,U202,U206,U213, U218,U219,U221,U222,U223,U234,U236,U237,U238,U240,U244,U248, U328,U353,U359	CMBST
☐	K106	RMERC
☐	U134	ADGAS fb NEUTR; or NEUTR

If there are any codes not listed on this form that apply to this waste stream, please list the EPA waste code and the treatment standard below.

_____

_____

*Note: Retain one copy for your files, send one copy with your shipment

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NMD048918817
2. Page 1 of: 1
3. Emergency Response Phone: 575-365-8365
4. Manifest Tracking Number: 005035534 JJK

GENERATOR

5. Generator's Name and Mailing Address
Navajo Refining Company (D0035)
P.O. Box 159
Artesia, NM 88211-0159
Generator's Phone: 505 748-3311

Generator's Site Address (if different than mailing address)
501 East Main
Artesia, NM 88210

6. Transporter 1 Company Name: Fluid Transport (41382)
U.S. EPA ID Number: TXD988057931

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
DuraTherm, Inc. (34814)
2700 Avenue S
San Leon, TX 77539
Facility's Phone: 281-339-1352
U.S. EPA ID Number: TXD981053770

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, Hazardous Waste Solid, n.o.s., 9, NA3077, PGIII (K170)	1	CM	Approx 25,360	P	K170	D018	489H
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile 090074 Caliche w/Oily Sludge H039
Trans. Phone #
333998

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Darrell Moore
Signature: Darrell Moore
Month 05 Day 26 Year 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jimmy Allen
Signature:
Month 05 Day 26 Year 09
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual Weight Received 23900 pounds PP
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H039 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Waverly Edmond
Signature:
Month 5 Day 28 Year 9

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NMD049918817	1	575-365-8365	005035534 JJK

GENERATOR

5. Generator's Name and Mailing Address
Navajo Refining Company (D0035)
P.O. Box 159
Artesia, NM 88211-0159
Generator's Phone: 505 748-3311

Generator's Site Address (if different than mailing address)
501 East Main
Artesia, NM 88210

6. Transporter 1 Company Name: Fluid Transport (41382) — U.S. EPA ID Number: TXD988057931

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
DuraTherm, Inc. (34814)
2700 Avenue S
San Leon, TX 77539
Facility's Phone: 281-339-1352
U.S. EPA ID Number: TXD981053770

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, Hazardous Waste Solid, n.e.s., 9, NA3077, PGIII (K170)	1	CM	Approx 25,360	P	K170	D018	D039
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile 090074 Caliche w/Oily Sludge — H039
Trans. Phone #

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Darrell Moore — Signature: Darrell Moore — Month: 05 Day: 26 Year: 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jimmy Allen — Signature — Month: 05 Day: 26 Year: 09

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Actual Weight Received 23900 pounds PP — Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H039			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Maxwell Edmond — Signature — Month: 5 Day: 28 Year: 9

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NMD048918817	1	575-365-8365	005035534 JJK

GENERATOR

5. Generator's Name and Mailing Address
Navajo Refining Company (D0035)
P.O. Box 159
Artesia, NM 88211-0159
Generator's Phone: 505 748-3311

Generator's Site Address (if different than mailing address)
501 East Main
Artesia, NM 88210

6. Transporter 1 Company Name
Fluid Transport (41382)

U.S. EPA ID Number
TXD988057931

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
DuraTherm, Inc. (34814)
2700 Avenue S
San Leon, TX 77539
Facility's Phone: 281-339-1352

U.S. EPA ID Number
TXD981053770

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, Hazardous Waste Solid, n.o.s., 9, NA3077, PGIII (K170)	1	CM	Approx 25,360	P	K170	D018	D039
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile 090074 Caliche w/Oily Sludge
Trans. Phone #

H039

33998

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Darrell Moore
Signature: Darrell Moore
Month Day Year: 05 26 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: J. Hagg Allen
Signature:
Month Day Year: 05 26 09

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Actual Weight Received 23900 pounds PP Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H039			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Mark Edmond
Signature:
Month Day Year: 5 28 09

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NMD048915817	1		00503534 JJK

GENERATOR

5. Generator's Name and Mailing Address
Navajo Refining Company (D0035)
P.O. Box 159
Artesia, NM 88211-0159
Generator's Phone: 505 748-3311

Generator's Site Address (if different than mailing address)
501 East Main
Artesia, NM 88210

6. Transporter 1 Company Name
Fluid Transport (41382)

U.S. EPA ID Number
TXD988057931

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
DuraTherm, Inc. (34814)
2700 Avenue S
San Leon, TX 77539
Facility's Phone: 281-339-1952

U.S. EPA ID Number
TXD981053770

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, Hazardous Waste Solid, n.o.s., 9, NA3077, PGIII (K170)	1	CM	25,260	P	K170	OUTS	489H
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile 090074 Caliche w/Oily Sludge CEI Bin H039
Trans. Phone #

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name | Signature | Month | Day | Year
05 26 05

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

DuraTherm, Inc.

Land Disposal Notification Form

Generator Name: Navajo Refining-Artesia EPA ID No.: NMD048918817

DuraTherm Waste Profile No.: 090074 Manifest No.: 005035534 JJK

Identified below are the EPA hazardous waste codes applicable to this waste shipment as defined by 40 CFR 261, including the applicable subcategory.

EPA Hazardous Waste Code	Subcategory		Treatability Group	
	None	Description	Wastewater	Non Wastewater
K170				X

This waste must be managed in accordance with 40 CFR 268.7 as indicated below:

☒ Restricted waste requires treatment to applicable concentration based standards in 40 CFR 268.40

☐ Restricted waste requires treatment to applicable technology based standards in 40 CFR 268.42, 40 CFR 268.32 or RCRA 3004 (d)

☐ Restricted waste requiring no further treatment - I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification and that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004 (d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

☐ Restricted waste treated to performance standards - I certify under penalty of law that I personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of these individuals immediately responsible for obtaining this information. I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004 (d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

☐ Restricted waste subject to a variance – This waste is subject to a variance under 40 CFR 268.6 or 40 CFR Subpart C. Supporting documentation is ☐ Attached or ☐ On file at DuraTherm, Inc.

☐ Non-restricted waste – not subject to 40 CFR 268 restrictions

☐ Restricted waste requiring treatment (stabilization) for metals. Organics meet UTS/LDR requirements.

I hereby certify that the information submitted is true, accurate, and complete to the best of my knowledge and information.

Darrell Moore	Darrell Moore	Env. Mgr	5/26/09
Name	Authorized Signature	Title	Date

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NMD048918817	1	575-365-8365	005035535 JJK

GENERATOR

5. Generator's Name and Mailing Address
Navajo Refining Company (D0035)
P.O. Box 159
Artesia, NM 88211-0159
Generator's Phone: 505 748-3311

Generator's Site Address (if different than mailing address)
501 East Main
Artesia, NM 88210

6. Transporter 1 Company Name: Fluid Transport (41382) — U.S. EPA ID Number: TXD988057931

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
DuraTherm, Inc. (34814)
2700 Avenue S
San Leon, TX 77539
Facility's Phone: 281-339-1352
U.S. EPA ID Number: TXD981053770

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, Hazardous Waste Solid, n.o.s., 9, NA3077, PGIII (K170)	1	CM	Approx. 26780	P	K170	OUTS	489H
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile 090074 Caliche w/Oily Sludge
Trans. Phone #
Box A R 18 3/4017
H039

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Darrell Moore — Signature: Darrell Moore — Month 05 Day 27 Year 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. *Transporter Acknowledgment of Receipt of Materials*

Transporter 1 Printed/Typed Name: DAVID TREVIÑO — Signature — Month 05 Day 27 Year 09

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Actual Weight Received 25860 Pounds PP Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H039			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Marvely Edmond — Signature — Month 5 Day 29 Year 9

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NMD048918817	1	575-365-8365	005035535 JJK

GENERATOR

5. Generator's Name and Mailing Address
Navajo Refining Company (D0035)
P.O. Box 159
Artesia, NM 88211-0159
Generator's Phone: 505 748-3311

Generator's Site Address (if different than mailing address)
501 East Main
Artesia, NM 88210

6. Transporter 1 Company Name
Fluid Transport (41382)

U.S. EPA ID Number
TXD988057931

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
DuraTherm, Inc. (34814)
2700 Avenue S
San Leon, TX 77539
Facility's Phone: 281-339-1352

U.S. EPA ID Number
TXD981053770

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, Hazardous Waste Solid, n.o.s., 9, NA3077, PGIII (K170)	1	CM	Approx. 26780	P	K170	OUTS	489H
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile 090074 Caliche w/Oily Sludge H039
Trans. Phone #
Box # R 18 3/4/17

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Darrell Moore
Signature: Darrell Moore
Month: 05 Day: 27 Year: 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: DAVID TRGNEY
Signature:
Month: 05 Day: 27 Year: 09

Transporter 2 Printed/Typed Name
Signature
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual Weight Received 25860 Pounds PP Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H039			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Marvely Edmond
Signature:
Month: 5 Day: 29 Year: 9

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NMD048918617
2. Page 1 of: 1
3. Emergency Response Phone: 575 365 8365
4. Manifest Tracking Number: 005035535 JJK

GENERATOR

5. Generator's Name and Mailing Address
Navajo Refining Company (D0035)
P.O. Box 159
Artesia, NM 88211-0159
Generator's Phone: 505 748-3311

Generator's Site Address (if different than mailing address)
501 East Main
Artesia, NM 88210

6. Transporter 1 Company Name: Fluid Transport (41382)
U.S. EPA ID Number: TXD988057931

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
DuraTherm, Inc. (34814)
2700 Avenue S
San Leon, TX 77539
Facility's Phone: 281-339-1352
U.S. EPA ID Number: TXD981053770

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, Hazardous Waste Solid, n.o.s., 9, NA3077, PGIII (K170)	1	CM	Approx. 26780	P	K170	OUT2	489H
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile 096074 Caliche w/Oily Sludge
Trans. Phone #
Box # R 18
5/4/09
H039

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Darrell Moore
Signature: Darrell Moore
Month: 05 Day: 27 Year: 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: DAVID TRGNEY
Signature:
Month: 05 Day: 27 Year: 09

Transporter 2 Printed/Typed Name
Signature
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual Weight Received 25860 Pounds PP
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H039			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Randy Edmond
Signature:
Month: 5 Day: 29 Year: 9

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NMD048918812

2. Page 1 of: 1

3. Emergency Response Phone:

4. Manifest Tracking Number: 005035535 JJK

GENERATOR

5. Generator's Name and Mailing Address
Navajo Refining Company (D0035)
P.O. Box 159
Artesia, NM 88211-0159
Generator's Phone: 505 748-3311

Generator's Site Address (if different than mailing address)
501 East Main
Artesia, NM 88210

6. Transporter 1 Company Name
Fluid Transport (61382)

U.S. EPA ID Number
TXD988053793

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
DuraTherm, Inc. (56814)
2700 Avenue S
San Leon, TX 77539
Facility's Phone: 281-339-1352

U.S. EPA ID Number
TXD981053770

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, Hazardous Waste Solid, n.o.s., 9, NA3077, PGIII (K170)	1	CM	Report 20,780	P	K170	OUTS	489H
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Profile 090074 Caliche w/Oily Sludge
Trans. Phone #
CRI
E039

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Darrell Mann
Signature:
Month: 03 Day: 27 Year: 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: DAVID TRUJILLO
Signature:
Month: 03 Day: 27 Year: 09

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

DuraTherm, Inc.

Land Disposal Notification Form

Generator Name **Navajo Refining-Artesia** EPA ID No. **NMD048918817**

DuraTherm Waste Profile No. **090074** Manifest No. 005035535 JJK

Identified below are the EPA hazardous waste codes applicable to this waste shipment as defined by 40 CFR 261, including the applicable subcategory.

EPA Hazardous Waste Code	Subcategory		Treatability Group	
	None	Description	Wastewater	Non Wastewater
K170				**X**

This waste must be managed in accordance with 40 CFR 268.7 as indicated below:

☒ Restricted waste requires treatment to applicable concentration based standards in 40 CFR 268.40

☐ Restricted waste requires treatment to applicable technology based standards in 40 CFR 268.42, 40 CFR 268.32 or RCRA 3004 (d)

☐ Restricted waste requiring no further treatment - I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification and that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004 (d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

☐ Restricted waste treated to performance standards - I certify under penalty of law that I personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of these individuals immediately responsible for obtaining this information. I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004 (d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

☐ Restricted waste subject to a variance – This waste is subject to a variance under 40 CFR 268.6 or 40 CFR Subpart C. Supporting documentation is ☐ Attached or ☐ On file at DuraTherm, Inc.

☐ Non-restricted waste – not subject to 40 CFR 268 restrictions

☐ Restricted waste requiring treatment (stabilization) for metals. Organics meet UTS/LDR requirements.

I hereby certify that the information submitted is true, accurate, and complete to the best of my knowledge and information.

Darrell Moore	Darrell Moore	Env. Mgr.	5/27/09
Name	Authorized Signature	Title	Date

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☑ Initial Report ☐ Final Report

Name of Company: Navajo Refining Co. LLC	Contact: Aaron Strange
Address: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311
Facility Name: Artesia Plant	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release: Sewer backup of water and hydrocarbon	Volume of Release: ~ 15 barrels	Volume Recovered: ~ 10 barrels
Source of Release: Sewers at D-80 and North of the ISOM unit.	Date and Hour of Occurrence: 6/18/09 ~ 23:00	Date and Hour of Discovery: 6/19/09 ~ 03:00
Was Immediate Notice Given? ☐ Yes ☐ No ☑ Not Required	If YES, To Whom? NA	
By Whom? NA	Date and Hour: NA	
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
On 6/18/09 at ~ 23:00 the sewers at D-80 and north of the ISOM unit backed up spilled onto the ground. A vacuum truck removed the standing liquid and put it back into the Waste Water Sewers. The contaminated soil was dug up and placed into hard top roll-off bins.

Describe Area Affected and Cleanup Action Taken.*
The spill occurred at D-80 and north of the ISOM unit. This section of sewers runs along the South side of Eagle Draw. Most of the spill collected near the sewer inlet, sewer vents, and a sewer cleanout. Some of the spill collected in a storm water ditch next to Eagle Draw that prevents releases form getting into the draw. A vacuum truck removed the standing liquid. The contaminated soil was dug up and placed into hard top roll-off bins for disposal. A disposal facility will be chosen, based on the analytical test results.

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: Aaron Strange	OIL CONSERVATION DIVISION	
Printed Name: Aaron Strange	Approved by District Supervisor:	
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: aaron.strange@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 6/19/09 Phone: 575-746-5451		

* Attach Additional Sheets If Necessary

34150

NON-HAZARDOUS WASTE MANIFEST

PART I: Generator Navajo Refining Co. LLC
Address PO Box 159 (575) 748-3311 Telephone No.
City/State Artesia, NM 88211-0159

ORGINATION OF WASTE:

Operations Center Artesia Permit No. NMD048918817

Property Name 3 Mile Ditch
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	
DESCRIPTION / NOTES					
12 Yds Cont. Soil dried [redacted] Sewer Spill					

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Signature of Generator's Authorized Agent — Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name S Brothers
Address
City/State
Telephone No.
2
Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Signature of Transporter's Agent — 6-30-09 Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.** **(575) 393-1079** Telephone No.
Address **P.O. Box 388**
City/State **Hobbs, N.M. 88241-0388** **www.crihobbs.com** E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent — 6/30/09 6:37 AM Date and Time Received

THE COLOR PRINTER #7520-A

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Navajo Refining Co. LLC	Contact: Aaron Strange
Address: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311
Facility Name: Artesia Plant	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release: Sewer backup of plant waste water	Volume of Release: ~ 50 barrels	Volume Recovered: ~ 40 barrels
Source of Release: South Bundle Cleaning Pad.	Date and Hour of Occurrence: 10/08/09 ~20:00	Date and Hour of Discovery: 10/08/09 ~ 08:15
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? OCD	
By Whom? Aaron Strange	Date and Hour: 10-08-2009 at ~22:16	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
On 10/08/09 at ~ 20:00 the South Bundle Cleaning pad overflowed. The sewer plugged and plant waste overflowed the pad and ran down Chisum Ave. and part of East Fifth St. A vacuum truck removed the standing liquid and put it back into the Waste Water Sewers. Any contaminated soil will be dug up and placed into hard top roll-off bins.

Describe Area Affected and Cleanup Action Taken.*
The spill occurred at the South Bundle Cleaning Pad and ran down Chisum Ave. and part of East Fifth St. A vacuum truck removed the standing liquid and put it back into the Waste Water Sewers. Any contaminated soil will be dug up and placed into hard top roll-off bins. A disposal facility will be chosen, based on the analytical test results.

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: Aaron Strange	OIL CONSERVATION DIVISION	
Printed Name: Aaron Strange	Approved by District Supervisor:	
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: aaron.strange@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 10/09/09 Phone: 575-746-5451 or 575-703-5057		

* Attach Additional Sheets If Necessary

ALS Laboratory Group

Date: *21-Jan-10*

Client: Holly Energy Partners
Project: South Bundle Pad
Sample ID: BH #1
Collection Date: 1/6/2010 08:45 AM

Work Order: 1001092
Lab ID: 1001092-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			**SW8015M**		Prep Date: **1/8/2010**	Analyst: **KMB**
TPH (Diesel Range)	23		8.5	mg/Kg	5	1/13/2010 10:52 AM
TPH (Motor Oil Range)	250		17	mg/Kg	5	1/13/2010 10:52 AM
Surr: 2-Fluorobiphenyl	*102*		*70-130*	*%REC*	5	1/13/2010 10:52 AM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	ND		0.050	mg/Kg	1	1/13/2010 06:45 PM
Surr: 4-Bromofluorobenzene	*92.9*		*70-130*	*%REC*	1	1/13/2010 06:45 PM
MERCURY			**SW7471A**		Prep Date: **1/12/2010**	Analyst: **JCJ**
Mercury	0.0366		0.00346	mg/Kg	1	1/12/2010 04:15 PM
METALS			**SW6020**		Prep Date: **1/11/2010**	Analyst: **SKS**
Arsenic	5.27		0.463	mg/Kg	1	1/11/2010 08:42 PM
Barium	153		0.463	mg/Kg	1	1/11/2010 08:42 PM
Cadmium	ND		0.463	mg/Kg	1	1/11/2010 08:42 PM
Chromium	22.5		0.463	mg/Kg	1	1/11/2010 08:42 PM
Lead	16.6		0.463	mg/Kg	1	1/11/2010 08:42 PM
Selenium	1.04		0.463	mg/Kg	1	1/11/2010 08:42 PM
Silver	ND		0.463	mg/Kg	1	1/11/2010 08:42 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *21-Jan-10*

Client: Holly Energy Partners
Project: South Bundle Pad
Sample ID: BH #2
Collection Date: 1/6/2010 08:52 AM

Work Order: 1001092
Lab ID: 1001092-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			**SW8015M**		Prep Date: **1/8/2010**	Analyst: **KMB**
TPH (Diesel Range)	11		8.5	mg/Kg	5	1/13/2010 11:11 AM
TPH (Motor Oil Range)	250		17	mg/Kg	5	1/13/2010 11:11 AM
Surr: 2-Fluorobiphenyl	*119*		*70-130*	*%REC*	5	1/13/2010 11:11 AM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	ND		0.050	mg/Kg	1	1/13/2010 07:10 PM
Surr: 4-Bromofluorobenzene	*90.3*		*70-130*	*%REC*	1	1/13/2010 07:10 PM
MERCURY			**SW7471A**		Prep Date: **1/12/2010**	Analyst: **JCJ**
Mercury	0.0697		0.00348	mg/Kg	1	1/12/2010 04:17 PM
METALS			**SW6020**		Prep Date: **1/11/2010**	Analyst: **SKS**
Arsenic	4.41		0.439	mg/Kg	1	1/11/2010 08:48 PM
Barium	121		0.439	mg/Kg	1	1/11/2010 08:48 PM
Cadmium	ND		0.439	mg/Kg	1	1/11/2010 08:48 PM
Chromium	16.0		0.439	mg/Kg	1	1/11/2010 08:48 PM
Lead	31.4		0.439	mg/Kg	1	1/11/2010 08:48 PM
Selenium	0.715		0.439	mg/Kg	1	1/11/2010 08:48 PM
Silver	ND		0.439	mg/Kg	1	1/11/2010 08:48 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

☒ ALS Laboratory Group
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

Page 1 of 1

☐ ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager: | ALS Work Order #: 100092

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	South Bundle Pad	A	DRO
Work Order		Project Number		B	GRO (Pergable)
Company Name	Navajo Refining Co.	Bill To Company		C	RCRA Metals
Send Report To	Aaron Strange	Invoice Attn		D	
Address	P.O. Box 159	Address		E	If GRO Greater than 80 mg/kg run VOCs
				F	If DRO Greater than 200 mg/Kg run SVOCs
City/State/Zip	Artesia NM 88210	City/State/Zip		G	
Phone	575-748-3311	Phone		H	
Fax	575-746-5421	Fax		I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	BH #1	1-6-10	0845	S	Y	1	X	X	X		X	X					
2	BH #2	1-6-10	0852	S	Y	1	X	X	X		X	X					
3	Temp. Blank																
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Aaron Strange

Shipment Method: Fed Ex

Required Turnaround Time: (Check Box) ☐ Other ____
☑ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes:
Aaron Strange	1-6-10	1615		
Relinquished by:	Date:	Time:	Received by (Laboratory): 1/7/10 09:40	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Cooler ID	Cooler Temp

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Date ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other ____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Laboratory Group

Date: *19-Nov-09*

Client: Holly Energy Partners
Project: South Bundle Pad
Sample ID: F037 BH#1
Collection Date: 11/4/2009 01:36 PM

Work Order: 0911117
Lab ID: 0911117-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			**SW8015M**		Prep Date: **11/6/2009**	Analyst: **KMB**
TPH (Diesel Range)	160		34	mg/Kg	20	11/17/2009 05:53 PM
Surr: 2-Fluorobiphenyl	*105*		*70-130*	*%REC*	20	11/17/2009 05:53 PM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	ND		0.050	mg/Kg	1	11/9/2009 01:39 PM
Surr: 4-Bromofluorobenzene	*80.2*		*70-130*	*%REC*	1	11/9/2009 01:39 PM
MERCURY			**SW7471A**		Prep Date: **11/9/2009**	Analyst: **JCJ**
Mercury	**0.204**		0.00335	mg/Kg	1	11/9/2009 09:02 PM
METALS			**SW6020**		Prep Date: **11/9/2009**	Analyst: **SKS**
Arsenic	**6.71**		**0.439**	**mg/Kg**	1	11/9/2009 06:38 PM
Barium	**126**		**0.439**	**mg/Kg**	1	11/9/2009 06:38 PM
Cadmium	ND		0.439	mg/Kg	1	11/9/2009 06:38 PM
Chromium	**36.2**		**0.439**	**mg/Kg**	1	11/9/2009 06:38 PM
Lead	**20.1**		**0.439**	**mg/Kg**	1	11/9/2009 06:38 PM
Selenium	**9.09**		**0.439**	**mg/Kg**	1	11/9/2009 06:38 PM
Silver	ND		0.439	mg/Kg	1	11/9/2009 06:38 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **11/18/2009**	Analyst: **LG**
Acenaphthene	ND		0.0066	mg/Kg	1	11/18/2009 05:03 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	11/18/2009 05:03 PM
Anthracene	ND		0.0066	mg/Kg	1	11/18/2009 05:03 PM
Benz(a)anthracene	**0.010**		**0.0066**	**mg/Kg**	1	11/18/2009 05:03 PM
Benzo(a)pyrene	**0.014**		**0.0066**	**mg/Kg**	1	11/18/2009 05:03 PM
Benzo(b)fluoranthene	**0.0099**		**0.0066**	**mg/Kg**	1	11/18/2009 05:03 PM
Benzo(g,h,i)perylene	**0.019**		**0.0066**	**mg/Kg**	1	11/18/2009 05:03 PM
Benzo(k)fluoranthene	**0.012**		**0.0066**	**mg/Kg**	1	11/18/2009 05:03 PM
Chrysene	**0.064**		**0.0066**	**mg/Kg**	1	11/18/2009 05:03 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	11/18/2009 05:03 PM
Fluoranthene	**0.010**		**0.0066**	**mg/Kg**	1	11/18/2009 05:03 PM
Fluorene	ND		0.0066	mg/Kg	1	11/18/2009 05:03 PM
Indeno(1,2,3-cd)pyrene	**0.0097**		**0.0066**	**mg/Kg**	1	11/18/2009 05:03 PM
Naphthalene	ND		0.0066	mg/Kg	1	11/18/2009 05:03 PM
Phenanthrene	**0.013**		**0.0066**	**mg/Kg**	1	11/18/2009 05:03 PM
Pyrene	**0.050**		**0.0066**	**mg/Kg**	1	11/18/2009 05:03 PM
Surr: 2-Fluorobiphenyl	*82.4*		*43-125*	*%REC*	1	11/18/2009 05:03 PM
Surr: 4-Terphenyl-d14	*96.1*		*32-125*	*%REC*	1	11/18/2009 05:03 PM
Surr: Nitrobenzene-d5	*64.8*		*37-125*	*%REC*	1	11/18/2009 05:03 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *19-Nov-09*

Client: Holly Energy Partners
Project: South Bundle Pad
Sample ID: F037 BH#2
Collection Date: 11/4/2009 01:38 PM

Work Order: 0911117
Lab ID: 0911117-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			**SW8015M**		Prep Date: **11/6/2009**	Analyst: **KMB**
TPH (Diesel Range)	16		1.7	mg/Kg	1	11/17/2009 05:21 PM
Surr: 2-Fluorobiphenyl	*85.8*		*70-130*	*%REC*	1	11/17/2009 05:21 PM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	ND		0.050	mg/Kg	1	11/10/2009 04:28 PM
Surr: 4-Bromofluorobenzene	*82.4*		*70-130*	*%REC*	1	11/10/2009 04:28 PM
MERCURY			**SW7471A**		Prep Date: **11/9/2009**	Analyst: **JCJ**
Mercury	0.0594		0.00350	mg/Kg	1	11/9/2009 09:04 PM
METALS			**SW6020**		Prep Date: **11/9/2009**	Analyst: **SKS**
Arsenic	5.57		0.442	mg/Kg	1	11/9/2009 06:44 PM
Barium	105		0.442	mg/Kg	1	11/9/2009 06:44 PM
Cadmium	ND		0.442	mg/Kg	1	11/9/2009 06:44 PM
Chromium	16.1		0.442	mg/Kg	1	11/9/2009 06:44 PM
Lead	14.8		0.442	mg/Kg	1	11/9/2009 06:44 PM
Selenium	0.958		0.442	mg/Kg	1	11/9/2009 06:44 PM
Silver	ND		0.442	mg/Kg	1	11/9/2009 06:44 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *19-Nov-09*

Client: Holly Energy Partners
Project: South Bundle Pad
Sample ID: F037 BH#3
Collection Date: 11/4/2009 01:41 PM

Work Order: 0911117
Lab ID: 0911117-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			**SW8015M**		Prep Date: **11/6/2009**	Analyst: **KMB**
TPH (Diesel Range)	ND		34	mg/Kg	20	11/17/2009 04:48 PM
Surr: 2-Fluorobiphenyl	*87.7*		*70-130*	*%REC*	20	11/17/2009 04:48 PM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	ND		0.050	mg/Kg	1	11/10/2009 04:52 PM
Surr: 4-Bromofluorobenzene	*81.6*		*70-130*	*%REC*	1	11/10/2009 04:52 PM
MERCURY			**SW7471A**		Prep Date: **11/9/2009**	Analyst: **JCJ**
Mercury	**0.0403**		**0.00348**	**mg/Kg**	1	11/9/2009 09:06 PM
METALS			**SW6020**		Prep Date: **11/9/2009**	Analyst: **SKS**
Arsenic	**4.10**		**0.442**	**mg/Kg**	1	11/9/2009 06:50 PM
Barium	**126**		**0.442**	**mg/Kg**	1	11/9/2009 06:50 PM
Cadmium	ND		0.442	mg/Kg	1	11/9/2009 06:50 PM
Chromium	**12.3**		**0.442**	**mg/Kg**	1	11/9/2009 06:50 PM
Lead	**48.0**		**0.442**	**mg/Kg**	1	11/9/2009 06:50 PM
Selenium	**1.07**		**0.442**	**mg/Kg**	1	11/9/2009 06:50 PM
Silver	ND		0.442	mg/Kg	1	11/9/2009 06:50 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *19-Nov-09*

Client: Holly Energy Partners
Project: South Bundle Pad
Sample ID: F037 BH#4
Collection Date: 11/4/2009 01:49 PM

Work Order: 0911117
Lab ID: 0911117-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			**SW8015M**		Prep Date: **11/6/2009**	Analyst: **KMB**
TPH (Diesel Range)	580		34	mg/Kg	20	11/17/2009 05:21 PM
Surr: 2-Fluorobiphenyl	*59.5*	S	*70-130*	*%REC*	20	11/17/2009 05:21 PM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	ND		0.050	mg/Kg	1	11/10/2009 01:52 PM
Surr: 4-Bromofluorobenzene	*82.3*		*70-130*	*%REC*	1	11/10/2009 01:52 PM
MERCURY			**SW7471A**		Prep Date: **11/9/2009**	Analyst: **JCJ**
Mercury	0.0496		0.00348	mg/Kg	1	11/9/2009 09:08 PM
METALS			**SW6020**		Prep Date: **11/9/2009**	Analyst: **SKS**
Arsenic	6.39		0.463	mg/Kg	1	11/9/2009 06:56 PM
Barium	121		0.463	mg/Kg	1	11/9/2009 06:56 PM
Cadmium	ND		0.463	mg/Kg	1	11/9/2009 06:56 PM
Chromium	16.3		0.463	mg/Kg	1	11/9/2009 06:56 PM
Lead	27.0		0.463	mg/Kg	1	11/9/2009 06:56 PM
Selenium	0.930		0.463	mg/Kg	1	11/9/2009 06:56 PM
Silver	ND		0.463	mg/Kg	1	11/9/2009 06:56 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **11/18/2009**	Analyst: **LG**
Acenaphthene	ND		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Acenaphthylene	ND		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Anthracene	ND		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Benz(a)anthracene	0.016		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Benzo(a)pyrene	0.016		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Benzo(b)fluoranthene	0.021		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Benzo(g,h,i)perylene	0.012		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Benzo(k)fluoranthene	0.016		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Chrysene	0.048		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Dibenz(a,h)anthracene	ND		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Fluoranthene	0.036		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Fluorene	ND		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Indeno(1,2,3-cd)pyrene	0.015		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Naphthalene	ND		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Phenanthrene	0.023		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Pyrene	0.043		0.0066	mg/Kg	1	11/18/2009 05:24 PM
Surr: 2-Fluorobiphenyl	*79.3*		*43-125*	*%REC*	1	11/18/2009 05:24 PM
Surr: 4-Terphenyl-d14	*91.1*		*32-125*	*%REC*	1	11/18/2009 05:24 PM
Surr: Nitrobenzene-d5	*60.6*		*37-125*	*%REC*	1	11/18/2009 05:24 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *19-Nov-09*

Client: Holly Energy Partners
Project: South Bundle Pad
Sample ID: F037 BH#5
Collection Date: 11/4/2009 01:53 PM

Work Order: 0911117
Lab ID: 0911117-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			**SW8015M**		Prep Date: **11/6/2009**	Analyst: **KMB**
TPH (Diesel Range)	35		34	mg/Kg	20	11/11/2009 04:31 PM
Surr: 2-Fluorobiphenyl	*84.6*		*70-130*	*%REC*	20	11/11/2009 04:31 PM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	ND		0.050	mg/Kg	1	11/10/2009 05:17 PM
Surr: 4-Bromofluorobenzene	*84.9*		*70-130*	*%REC*	1	11/10/2009 05:17 PM
MERCURY			**SW7471A**		Prep Date: **11/9/2009**	Analyst: **JCJ**
Mercury	0.0496		0.00349	mg/Kg	1	11/9/2009 09:10 PM
METALS			**SW6020**		Prep Date: **11/9/2009**	Analyst: **SKS**
Arsenic	5.26		0.455	mg/Kg	1	11/9/2009 07:08 PM
Barium	140		0.455	mg/Kg	1	11/9/2009 07:08 PM
Cadmium	ND		0.455	mg/Kg	1	11/9/2009 07:08 PM
Chromium	19.0		0.455	mg/Kg	1	11/9/2009 07:08 PM
Lead	32.7		0.455	mg/Kg	1	11/9/2009 07:08 PM
Selenium	1.10		0.455	mg/Kg	1	11/9/2009 07:08 PM
Silver	ND		0.455	mg/Kg	1	11/9/2009 07:08 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *19-Nov-09*

Client: Holly Energy Partners
Project: South Bundle Pad
Sample ID: F037 BH#6
Collection Date: 11/4/2009 01:56 PM

Work Order: 0911117
Lab ID: 0911117-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			**SW8015M**		Prep Date: **11/6/2009**	Analyst: **KMB**
TPH (Diesel Range)	26		1.7	mg/Kg	1	11/17/2009 05:53 PM
Surr: 2-Fluorobiphenyl	*108*		*70-130*	*%REC*	1	11/17/2009 05:53 PM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	ND		0.050	mg/Kg	1	11/12/2009 03:13 PM
Surr: 4-Bromofluorobenzene	*84.1*		*70-130*	*%REC*	1	11/12/2009 03:13 PM
MERCURY			**SW7471A**		Prep Date: **11/9/2009**	Analyst: **JCJ**
Mercury	0.0131		0.00358	mg/Kg	1	11/9/2009 09:12 PM
METALS			**SW6020**		Prep Date: **11/9/2009**	Analyst: **SKS**
Arsenic	3.21		0.463	mg/Kg	1	11/9/2009 07:14 PM
Barium	142		0.463	mg/Kg	1	11/9/2009 07:14 PM
Cadmium	ND		0.463	mg/Kg	1	11/9/2009 07:14 PM
Chromium	10.8		0.463	mg/Kg	1	11/9/2009 07:14 PM
Lead	11.4		0.463	mg/Kg	1	11/9/2009 07:14 PM
Selenium	0.994		0.463	mg/Kg	1	11/9/2009 07:14 PM
Silver	ND		0.463	mg/Kg	1	11/9/2009 07:14 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *19-Nov-09*

Client: Holly Energy Partners
Project: South Bundle Pad
Sample ID: Trip Blank
Collection Date: 11/4/2009 01:56 PM

Work Order: 0911117
Lab ID: 0911117-07
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	ND		0.0500	mg/L	1	11/8/2009 11:06 PM
Surr: 4-Bromofluorobenzene	*81.0*		*70-130*	*%REC*	1	11/8/2009 11:06 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

Page 1 of 1

ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager: | ALS Work Order #: 091117

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	South Bundle Pad	A	DRO
Work Order		Project Number		B	GRO (Pergable)
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C	RCRA Metals
Send Report To	Aaron Strange	Invoice Attn	Aaron Strange	D	
Address	P.O. Box 159	Address	P.O. Box 159	E	If GRO Greater than 80 mg/kg run VOCs
				F	If DRO Greater than 200 mg/kg run SVOCs
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	G	
Phone	575 (575) 748-3311	Phone	575 (575) 748-3311	H	
Fax	575 (575) 746-5421	Fax	575 (575) 746-5421	I	
e-Mail Address	[redacted]	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	FO37 BH #1	11-4-09	1336	S	Y	1	X	X	X		X	X					
2	" " #2		1338			1	X	X	X		X	X					
3	" " #3		1341			1	X	X	X		X	X					
4	" " #4		1349			1	X	X	X		X	X					
5	" " #5		1353			1	X	X	X		X	X					
6	" " #6		1356			1	X	X	X		X	X					
7	Temp Blank																
8	Trip Blank																
9																	
10																	

Sampler(s) Please Print & Sign: Aaron Strange

Shipment Method: Fed Ex

Required Turnaround Time: (Check Box) ☑ Std. 10 WK Days ☐ 5 WK Days ☐ 3 WK Days ☐ 2 WK Days ☐ 1 WK Day ☐ Other

Results Due Date:

Relinquished by: Aaron Strange | Date: 11-4-09 | Time: 1615 | Received by:

Relinquished by: | Date: | Time: | Received by (Laboratory): 11-5-09 133

Notes: 5 Work Days TAT

Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory):

Cooler ID | Cooler Temp.

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.

Please print or type: (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NMD048918817
2. Page 1 of: 1
3. Emergency Response Phone: 505-748-3311
4. Manifest Tracking Number: 002900309 FLE

GENERATOR

5. Generator's Name and Mailing Address
Navajo Refining Company
~~501 E. Main~~ P.O. Box 159
Artesia, NM 88210-0159
Generator's Phone: 505-748-3311 Darrell Moore

Generator's Site Address (if different than mailing address)
Navajo Refining Company
501 E. Main
Artesia, NM 88210

6. Transporter 1 Company Name: Fluid Transports, Inc.
U.S. EPA ID Number: TXD988057931

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
RINESCO
1007 Vulcan Road
Benton, AR 72015
Facility's Phone: 501-778-6325
U.S. EPA ID Number: ARD981057870

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, NA3077, Hazardous Waste Solid, NOS (F037), 9 PG III, ()	1	CM	APPROX 15,500	P	F037	D-018	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. 0910-18555 ERG#171 F037 Tank Sludge Box 20503 sewer overflow
171718

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Aaron Strange
Signature:
Month: 10 Day: 26 Year: 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DAVID TREVEY
Signature:
Month: 10 Day: 26 Year: 09
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H061 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Whitney Buck
Signature: Whitney Buck
Month: 10 Day: 28 Year: 09

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NMD048918817
2. Page 1 of 1
3. Emergency Response Phone: 505-748-3311
4. Manifest Tracking Number: 004092208 JJK

5. Generator's Name and Mailing Address
Navajo Refining Company
~~501 E Main St~~ P.O. Box 159
Artesia, NM 88211-0159 USA
Generator's Phone: 505-748-3311-Darrell Moore

Generator's Site Address (if different than mailing address)
Navajo Refining Company
Artesia, NM 88210 USA

6. Transporter 1 Company Name: FLUID TRANSPORTS, INC
U.S. EPA ID Number: TX0988067931

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
RINECO
1007 VULCAN ROAD
BENTON, AR
Facility's Phone: 501-778-6325
U.S. EPA ID Number: ARD981057870

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, Hazardous Waste Solid NOS (F037), 9, PG III, ()	1	CM	APPROX ~~22260~~ 20920	P	F037, D-018
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. 0910-16066 ERG#171 F037 Tank Sludge
Sewer Overflow
unload #172229 11:00 AM Friday BOX # 20517

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Aaron Strange
Signature: [signature]
Month 10 Day 28 Year 09

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: BOB STECKERT
Signature: [signature]
Month 10 Day 28 Year 09
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Rineco received 20920 on load. This discrepancy was resolved within 15 days. All above correction.
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H061
2.
3.
4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Carrie LeBeouf
Signature: [signature]

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATE

004092208JJK

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Navajo Refining Co. LLC	Contact: Aaron Strange
Address: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311
Facility Name: Artesia Plant	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release: Sewer backup of process water	Volume of Release: ~ 10 barrels	Volume Recovered: ~ 8 barrels
Source of Release: Sewer Box at the north end of ISOM unit.	Date and Hour of Occurrence: 10/13/09 ~21:00	Date and Hour of Discovery: 10/14/09 ~ 06:00
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour: 10-08-2009 at ~22:16	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
On 10/13/09 at ~ 21:00 a sump (connected to the sewer) at the north end of the ISOM unit was high. A diaphragm pump was used to transfer it to another sump downstream to prevent it from overflowing. However during the night the downstream sump overflowed. The pump was first turned off then the downstream sump was pumped into another sewer. A vacuum truck has been removing the standing liquid and putting it back into the Waste Water Sewers. Any contaminated soil will be dug up and placed into hard top roll-off bins.

Describe Area Affected and Cleanup Action Taken.*
The spill occurred north of the ISOM unit by the North Side Flare Drum. It left puddles by the flare drum and also collected in the storm water ditch. A vacuum truck has been removing the standing liquid and putting it back into the Waste Water Sewers. The contaminated soil is being dug up and placed into hard top roll-off bins. The contaminated soil will be disposed of as hazardous waste F037/F038 with D018.

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: Aaron Strange	OIL CONSERVATION DIVISION	
Printed Name: Aaron Strange	Approved by District Supervisor:	
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: aaron.strange@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 10/14/09 Phone: 575-746-5451 or 575-703-5057		

* Attach Additional Sheets If Necessary

ALS Laboratory Group

Date: *16-Nov-09*

Client: Holly Energy Partners
Project: ISDM Overflow
Work Order: 0911131
Sample ID: F037 BH#1
Lab ID: 0911131-01
Collection Date: 11/4/2009 02:22 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **11/6/2009**	Analyst: **KMB**
TPH (Diesel Range)	ND		49	mg/Kg	1	11/10/2009 09:27 PM
Surr: 2-Fluorobiphenyl	*84.9*		*70-130*	*%REC*	1	11/10/2009 09:27 PM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	ND		0.050	mg/Kg	1	11/10/2009 06:06 PM
Surr: 4-Bromofluorobenzene	*82.6*		*70-130*	*%REC*	1	11/10/2009 06:06 PM
MERCURY			**SW7471A**		Prep Date: **11/9/2009**	Analyst: **JCJ**
Mercury	**0.139**		**0.00353**	**mg/Kg**	1	11/9/2009 09:14 PM
METALS			**SW6020**		Prep Date: **11/9/2009**	Analyst: **SKS**
Arsenic	**6.60**		**0.450**	**mg/Kg**	1	11/9/2009 10:42 PM
Barium	**142**		**0.450**	**mg/Kg**	1	11/9/2009 10:42 PM
Cadmium	**0.631**		**0.450**	**mg/Kg**	1	11/9/2009 10:42 PM
Chromium	**42.9**		**0.450**	**mg/Kg**	1	11/9/2009 10:42 PM
Lead	**78.3**		**0.450**	**mg/Kg**	1	11/9/2009 10:42 PM
Selenium	**5.06**		**0.450**	**mg/Kg**	1	11/9/2009 10:42 PM
Silver	ND		0.450	mg/Kg	1	11/9/2009 10:42 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Nov-09*

Client: Holly Energy Partners
Project: ISDM Overflow
Sample ID: F037 BH#2
Collection Date: 11/4/2009 02:24 PM

Work Order: 0911131
Lab ID: 0911131-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **11/6/2009**	Analyst: **KMB**
TPH (Diesel Range)	**570**		**49**	**mg/Kg**	1	11/10/2009 07:49 PM
Surr: 2-Fluorobiphenyl	*103*		*70-130*	*%REC*	1	11/10/2009 07:49 PM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	ND		0.050	mg/Kg	1	11/12/2009 11:50 PM
Surr: 4-Bromofluorobenzene	*88.4*		*70-130*	*%REC*	1	11/12/2009 11:50 PM
MERCURY			**SW7471A**		Prep Date: **11/9/2009**	Analyst: **JCJ**
Mercury	**0.144**		**0.00355**	**mg/Kg**	1	11/9/2009 09:20 PM
METALS			**SW6020**		Prep Date: **11/9/2009**	Analyst: **SKS**
Arsenic	**5.75**		**0.481**	**mg/Kg**	1	11/9/2009 10:48 PM
Barium	**170**		**0.481**	**mg/Kg**	1	11/9/2009 10:48 PM
Cadmium	ND		0.481	mg/Kg	1	11/9/2009 10:48 PM
Chromium	**27.4**		**0.481**	**mg/Kg**	1	11/9/2009 10:48 PM
Lead	**153**		**0.481**	**mg/Kg**	1	11/9/2009 10:48 PM
Selenium	**1.61**		**0.481**	**mg/Kg**	1	11/9/2009 10:48 PM
Silver	ND		0.481	mg/Kg	1	11/9/2009 10:48 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Nov-09*

Client: Holly Energy Partners
Project: ISDM Overflow
Work Order: 0911131
Sample ID: F037 BH#3
Lab ID: 0911131-03
Collection Date: 11/4/2009 02:27 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **11/6/2009**	Analyst: **KMB**
TPH (Diesel Range)	ND		50	mg/Kg	1	11/10/2009 08:21 PM
Surr: 2-Fluorobiphenyl	*82.9*		*70-130*	*%REC*	1	11/10/2009 08:21 PM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	ND		0.050	mg/Kg	1	11/13/2009 12:14 AM
Surr: 4-Bromofluorobenzene	*89.9*		*70-130*	*%REC*	1	11/13/2009 12:14 AM
MERCURY			**SW7471A**		Prep Date: **11/9/2009**	Analyst: **JCJ**
Mercury	**0.271**		**0.00356**	**mg/Kg**	1	11/9/2009 09:22 PM
METALS			**SW6020**		Prep Date: **11/9/2009**	Analyst: **SKS**
Arsenic	**6.09**		**0.439**	**mg/Kg**	1	11/9/2009 10:54 PM
Barium	**120**		**0.439**	**mg/Kg**	1	11/9/2009 10:54 PM
Cadmium	ND		0.439	mg/Kg	1	11/9/2009 10:54 PM
Chromium	**148**		**0.439**	**mg/Kg**	1	11/9/2009 10:54 PM
Lead	**227**		**4.39**	**mg/Kg**	10	11/10/2009 03:31 PM
Selenium	**3.48**		**0.439**	**mg/Kg**	1	11/9/2009 10:54 PM
Silver	ND		0.439	mg/Kg	1	11/9/2009 10:54 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Nov-09*

Client: Holly Energy Partners
Project: ISDM Overflow
Sample ID: F037 BH#4
Collection Date: 11/4/2009 02:30 PM

Work Order: 0911131
Lab ID: 0911131-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **11/6/2009**	Analyst: **KMB**
TPH (Diesel Range)	**890**		**49**	**mg/Kg**	1	11/10/2009 08:54 PM
Surr: 2-Fluorobiphenyl	*80.4*		*70-130*	*%REC*	1	11/10/2009 08:54 PM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	ND		0.050	mg/Kg	1	11/13/2009 12:39 AM
Surr: 4-Bromofluorobenzene	*93.2*		*70-130*	*%REC*	1	11/13/2009 12:39 AM
MERCURY			**SW7471A**		Prep Date: **11/9/2009**	Analyst: **JCJ**
Mercury	**0.342**		**0.00355**	**mg/Kg**	1	11/9/2009 09:24 PM
METALS			**SW6020**		Prep Date: **11/9/2009**	Analyst: **SKS**
Arsenic	**5.76**		**0.446**	**mg/Kg**	1	11/9/2009 11:00 PM
Barium	**126**		**0.446**	**mg/Kg**	1	11/9/2009 11:00 PM
Cadmium	ND		0.446	mg/Kg	1	11/9/2009 11:00 PM
Chromium	**141**		**0.446**	**mg/Kg**	1	11/9/2009 11:00 PM
Lead	**262**		**4.46**	**mg/Kg**	10	11/10/2009 03:37 PM
Selenium	**4.82**		**0.446**	**mg/Kg**	1	11/9/2009 11:00 PM
Silver	ND		0.446	mg/Kg	1	11/9/2009 11:00 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Nov-09*

Client: Holly Energy Partners
Project: ISDM Overflow
Work Order: 0911131
Sample ID: F037 BH#5
Lab ID: 0911131-05
Collection Date: 11/4/2009 02:32 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **11/6/2009**	Analyst: **KMB**
TPH (Diesel Range)	**1,200**		**50**	**mg/Kg**	1	11/10/2009 09:27 PM
Surr: 2-Fluorobiphenyl	*124*		*70-130*	*%REC*	1	11/10/2009 09:27 PM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	ND		0.050	mg/Kg	1	11/10/2009 07:45 PM
Surr: 4-Bromofluorobenzene	*80.3*		*70-130*	*%REC*	1	11/10/2009 07:45 PM
MERCURY			**SW7471A**		Prep Date: **11/9/2009**	Analyst: **JCJ**
Mercury	**0.379**		**0.00358**	**mg/Kg**	1	11/9/2009 09:26 PM
METALS			**SW6020**		Prep Date: **11/9/2009**	Analyst: **SKS**
Arsenic	**7.36**		**0.476**	**mg/Kg**	1	11/9/2009 11:06 PM
Barium	**151**		**0.476**	**mg/Kg**	1	11/9/2009 11:06 PM
Cadmium	ND		0.476	mg/Kg	1	11/9/2009 11:06 PM
Chromium	**210**		**4.76**	**mg/Kg**	10	11/10/2009 03:43 PM
Lead	**351**		**4.76**	**mg/Kg**	10	11/10/2009 03:43 PM
Selenium	**6.04**		**0.476**	**mg/Kg**	1	11/9/2009 11:06 PM
Silver	ND		0.476	mg/Kg	1	11/9/2009 11:06 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Nov-09*

Client: Holly Energy Partners
Project: ISDM Overflow
Work Order: 0911131
Sample ID: F037 BH#6
Lab ID: 0911131-06
Collection Date: 11/4/2009 02:35 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **11/6/2009**	Analyst: **KMB**
TPH (Diesel Range)	800		49	mg/Kg	1	11/10/2009 09:59 PM
Surr: 2-Fluorobiphenyl	*94.7*		*70-130*	*%REC*	1	11/10/2009 09:59 PM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	ND		0.050	mg/Kg	1	11/10/2009 08:10 PM
Surr: 4-Bromofluorobenzene	*78.9*		*70-130*	*%REC*	1	11/10/2009 08:10 PM
MERCURY			**SW7471A**		Prep Date: **11/9/2009**	Analyst: **JCJ**
Mercury	0.171		0.00353	mg/Kg	1	11/9/2009 09:28 PM
METALS			**SW6020**		Prep Date: **11/9/2009**	Analyst: **SKS**
Arsenic	8.37		0.481	mg/Kg	1	11/9/2009 11:24 PM
Barium	142		0.481	mg/Kg	1	11/9/2009 11:24 PM
Cadmium	ND		0.481	mg/Kg	1	11/9/2009 11:24 PM
Chromium	102		0.481	mg/Kg	1	11/9/2009 11:24 PM
Lead	148		4.81	mg/Kg	10	11/10/2009 03:49 PM
Selenium	3.60		0.481	mg/Kg	1	11/9/2009 11:24 PM
Silver	ND		0.481	mg/Kg	1	11/9/2009 11:24 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

☑ ALS Laboratory Group
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

Page 1 of 1

☐ ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager: | ALS Work Order #: 911137

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	ISOM Overflow	A	DRO
Work Order		Project Number		B	GRO (Purgable)
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C	RCRA Metals
Send Report To	Aaron Strange	Invoice Attn	Aaron Strange	D	
Address	P.O. Box 159	Address	P.O. Box 159	E	If GRO Greater than 50 mg/kg run VOCs
				F	If DRO Greater than 200 mg/kg run SVOCs
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	G	
Phone	575 (505) 748-3311	Phone	575 (505) 748-3311	H	
Fax	575 (505) 746-5421	Fax	575 (505) 746-5421	I	
e-Mail Address	[redacted]	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	FO37 BH #1	11-4-09	1422	S	Y	1	X	X	X		X	X					
2	" " #2		1424			1	X	X	X		X	X					
3	" " #3		1427			1	X	X	X		X	X					
4	" " #4		1430			1	X	X	X		X	X					
5	" " #5		1432			1	X	X	X		X	X					
6	" " #6		1435			1	X	X	X		X	X					
7	Temp Blank																
8	Trip Blank																
9																	
10																	

Sampler(s) Please Print & Sign: Aaron Strange

Shipment Method: Fed Ex

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☑ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by: Aaron Strange Date: 11-4-09 Time: 1615 Received by:

Relinquished by: Date: Time: Received by (Laboratory): 11-5-09 08:35

Logged by (Laboratory): Date: Time: Checked by (Laboratory):

Notes: 5 Work Days TAT

Cooler ID	Cooler Temp

QC Package: (Check One Box Below)
☑ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.

WASTE MANIFEST

5. Generator's Name and Mailing Address

Navajo Refining Company
~~501 E. Main~~ P.O. BOX 159
Artesia, NM 88211-0159 USA

Generator's Site Address (if different than mailing address)

Navajo Refining Company 501 E. Main
Artesia NM 88210 USA

Generator's Phone: 505-748-3311

6. Transporter 1 Company Name

FLUID TRANSPORTS, INC

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

RINECO
1007 VULCAN ROAD
BENTON, AR

U.S. EPA ID Number

Facility's Phone: 501-778-6525

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, NA3077, Hazardous Waste Solid, NOS (F037), 9, PG III, ()	1	CM	APPROX 9,260	P	F037	D-018	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information

1. 0810-18555 ERG#171 F037 Tank Sludge
Box # 20 S 16

sewer overflow

172230

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Aaron Strange | Signature | Month: 10 | Day: 29 | Year: 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: BOB STECKERT | Signature | Month: 10 | Day: 29 | Year: 09

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H061			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Whitney Ford | Signature | Month: 11 | Day: 14 | Year: 09

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

WASTE MANIFEST NMD048918817 | 1 | 0040522 [illegible]

5. Generator's Name and Mailing Address
Navajo Refining Company
~~501 E Main~~ P.O Box 159
Artesia, NM 88211-0159 USA

Generator's Site Address (if different than mailing address)
Navajo Refining Company 501 E Main
Artesia, NM 88210 USA

Generator's Phone: 505-748-3311-Daniel Moore

6. Transporter 1 Company Name
FLUID TRANSPORTS, INC
U.S. EPA ID Number

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
RINECO
1007 VULCAN ROAD
BENTON, AR
U.S. EPA ID Number ARD981057870
Facility's Phone: 501-778-6325

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, NA3077, Hazardous Waste Solid NOS (F037) 9, PG III, ()	1	CM	Approx. ~~12,120~~	P	F037	D-018	
	2.			10240				
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. 0910-18555 ERG#171 F037 Tank Sludge
sewer overflow
Box # 20555 171750

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Aaron Strange | Signature: [signature] | Month 10 Day 30 Year 09

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: BOB STECKERT | Signature: [signature] | Month 10 Day 30 Year 09
Transporter 2 Printed/Typed Name | Signature | Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Rineco received 10240 on line 1. This discrepancy was resolved within 15 days. No other action.
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H061 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Carrie LeBeau | Signature: [signature] | Month 11 Day 3 [illegible]

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **DESIGNATED FACILITY TO GENERATOR**

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Navajo Refining Co. LLC	Contact: Aaron Strange
Address: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311
Facility Name: Artesia Plant	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release: Process Water (After Aerobic Treatment)	Volume of Release: ~ 120 barrels	Volume Recovered: ~ 100 barrels
Source of Release: Waste water from T-836.	Date and Hour of Occurrence: 10/25/09 ~ 17:00	Date and Hour of Discovery: 10/25/09 ~ 17:15
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? OCD	
By Whom? Aaron Strange	Date and Hour: 10-25-2009 at ~18:05	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
On 10/25/09 at ~ 17:00 a flex line connected to T-437 split open. Waste water was being pumped from T-836 to T-437 to provide more capacity during a Fall-Off test for one for one of Navajo's injection wells. The line was replaced and a vacuum truck has removed the standing liquid and put it back into the Waste Water Sewers.

Describe Area Affected and Cleanup Action Taken.*
The spill occurred at T-437 within the tanks berm. The water collected inside the tank berm with rain water that was already present. A vacuum truck has removed the standing liquid and put it back into the Waste Water Sewers.

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: Aaron Strange	OIL CONSERVATION DIVISION	
Printed Name: Aaron Strange	Approved by District Supervisor:	
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: aaron.strange@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 10/26/09 Phone: 575-746-5451 or 575-703-5057		

* Attach Additional Sheets If Necessary

34146

NON-HAZARDOUS WASTE MANIFEST

PART I: Generator Navajo Refining Co. LLC
Address PO Box 159
City/State Artesia, NM 88211-0159
(575) 748-3311
Telephone No.

ORGINATION OF WASTE:

Operations Center Artesia
Permit No. NMD048918817

Property Name ~~3 Mile Ditch~~ North Plant
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	
DESCRIPTION / NOTES					
12 Yds Cont. Soil North Side Spill					

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Signature of Generator's Authorized Agent

Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name S Brothers
Address
City/State
Telephone No.
2
Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Signature of Transporter's Agent

7-2-09
Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.**
Address **P.O. Box 388**
City/State **Hobbs, N.M. 88241-0388**
(575) 393-1079
Telephone No.
www.crihobbs.com
E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent

7-2-09
Date and Time Received

34147

NON-HAZARDOUS WASTE MANIFEST

PART I: Generator Navajo Refining Co. LLC
Address PO Box 159
City/State Artesia, NM 88211-0159
(575) 748-3311
Telephone No.

ORGINATION OF WASTE:

Operations Center Artesia
Permit No. NMD048918817

Property Name ~~3 Mile Ditch~~ North Plant
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	
DESCRIPTION / NOTES					
12 Yds Cont. Soil					
North Side Spill					

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Signature of Generator's Authorized Agent

Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name S Brothers
Address
City/State
Telephone No.
2
Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Signature of Transporter's Agent

7-2-09
Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.**
Address **P.O. Box 388**
City/State **Hobbs, N.M. 88241-0388**
(575) 393-1079
Telephone No.
www.crihobbs.com
E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent

7/2/09
Date and Time Received

34148

NON-HAZARDOUS WASTE MANIFEST

PART I: Generator Navajo Refining Co. LLC
Address PO Box 159
City/State Artesia, NM 88211-0159
(575) 748-3311
Telephone No.

ORGINATION OF WASTE:

Operations Center Artesia
Permit No. NMD048918817

Property Name ~~3 Ditch~~ North plant
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	
DESCRIPTION / NOTES					
12 Yds Cont. Soil North side spill					

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Carrie Hernandez
Signature of Generator's Authorized Agent

Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name S Brothers
Address
City/State

Telephone No.
2
Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Signature of Transporter's Agent

7-1-09
Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.**
Address **P.O. Box 388**
City/State **Hobbs, N.M. 88241-0388**

(575) 393-1079
Telephone No.
www.crihobbs.com
E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent

7-1-09
Date and Time Received

34149

NON-HAZARDOUS WASTE MANIFEST

PART I: Generator Navajo Refining Co. LLC
Address PO Box 159
City/State Artesia, NM 88211-0159
(575) 748-3311
Telephone No.

ORGINATION OF WASTE:

Operations Center Artesia
Permit No. NMD048918817

Property Name 3 Mile Ditch
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	
DESCRIPTION / NOTES					
12 Yds Cont. Soil North Side Spill					

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Signature of Generator's Authorized Agent

Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name S Brothers
Address
City/State
Telephone No.
2
Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Signature of Transporter's Agent

7-1-09
Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.**
Address **P.O. Box 388**
City/State **Hobbs, N.M. 88241-0388**
(575) 393-1079
Telephone No.
www.crihobbs.com
E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent

7-1-09
Date and Time Received

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Navajo Refining Co. LLC	Contact: Aaron Strange
Address: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311
Facility Name: Artesia Plant	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release: Mercury	Volume of Release: NA	Volume Recovered: NA
Source of Release: Excavation for new pipe support footers in Unit #35 (Saturates Gas Plant).	Date and Hour of Occurrence: 11/12/09 ~ 13:00	Date and Hour of Discovery: 11/12/09 ~ 13:00
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom? NA	
By Whom? NA	Date and Hour: NA	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
On 11/12/09 at ~ 13:00 contractors began to remove several sections of concrete slab in Unit #35 to excavate for new pipe support footers. After removing much of the concrete, the contractors found beads of Mercury under one of the section of concrete slab. All excavation has been stopped and the exposed soil and pieces of concrete have been roped off. Safety and Environmental Solutions has been contacted to delineate the mercury contamination. We will send a finial report and sample analysis.

Describe Area Affected and Cleanup Action Taken.*
The Mercury was found under the northern most section of concrete slab in Unit #35 that was removed for new pipe support footers. All excavation has been stopped and the exposed soil and pieces of concrete have been roped off. Safety and Environmental Solutions has been contacted to delineate the mercury contamination. We will send a finial report and sample analysis.

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: Aaron Strange	OIL CONSERVATION DIVISION	
Printed Name: Aaron Strange	Approved by District Supervisor:	
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: aaron.strange@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 11/13/09 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NMD048918817	1	575-365-3365	004323672 JJK

GENERATOR

5. Generator's Name and Mailing Address
Navajo Refining
PO Box 159
Artesia, NM 88211 USA
Generator's Phone: 575-746-3311

Generator's Site Address (if different than mailing address)
501 E Main
Artesia, NM 88210 USA

6. Transporter 1 Company Name: HRW Industrial Services, LLC — U.S. EPA ID Number: TXD000075507

7. Transporter 2 Company Name: Phillips Reclamation Services — U.S. EPA ID Number: TXD074196338

8. Designated Facility Name and Site Address
PSC Environmental
405 Powell
Avalon, TX 76623 USA
Facility's Phone:
U.S. EPA ID Number: TXD046544700

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. Waste Mercury Contaminated Soil, 8, ERG#172, UN2809, PG III (D009)	009	DM	41,500	P	D009 CUTS 302 H
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1)434998
South Plant mercury cont. Soil

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Aaron Stanage — Signature: x Aaron Stanage — Month 12 Day 17 Year 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Coty Daisey — Signature: — Month 12 Day 17 Year 09

Transporter 2 Printed/Typed Name: Johnny Ornelas — Signature: Johnny Ornelas — Month 12 Day 29 Year 09

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
ACTUAL WEIGHT 41,689 lbs
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Carlos Lopez — Signature: — Month 12 Day 30 Year 09

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

ALS Laboratory Group

Date: 25-Nov-09

Client: Navajo Refining Company
Project: South Plant Mercury Recap
Work Order: 0911550

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
0911550-01	NE Corner	Soil		11/19/2009 09:22	11/21/2009 08:35	☐
0911550-02	SE Corner	Soil		11/19/2009 09:25	11/21/2009 08:35	☐
0911550-03	SW Corner	Soil		11/19/2009 09:27	11/21/2009 08:35	☐
0911550-04	Bottom 18"	Soil		11/19/2009 09:30	11/21/2009 08:35	☐
0911550-05	NW Corner	Soil		11/19/2009 09:33	11/21/2009 08:35	☐
0911550-06	West Wall	Soil		11/19/2009 09:35	11/21/2009 08:35	☐

ALS Laboratory Group

Date: *25-Nov-09*

Client: Holly Energy Partners
Project: South Plant Mercury Recap
Work Order: 0911550
Sample ID: NE Corner
Lab ID: 0911550-01
Collection Date: 11/19/2009 09:22 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			**SW8015M**		Prep Date: **11/23/2009**	Analyst: **KMB**
TPH (Diesel Range)	**1,200**		**42**	**mg/Kg**	25	11/25/2009 03:14 PM
Surr: 2-Fluorobiphenyl	*341*	S	*70-130*	*%REC*	25	11/25/2009 03:14 PM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	**110**		**0.25**	**mg/Kg**	5	11/24/2009 03:50 PM
Surr: 4-Bromofluorobenzene	*125*		*70-130*	*%REC*	5	11/24/2009 03:50 PM
MERCURY			**SW7471A**		Prep Date: **11/23/2009**	Analyst: **JCJ**
Mercury	**104,000**		**1,780**	**µg/Kg**	500	11/24/2009 10:54 AM
METALS			**SW6020**		Prep Date: **11/23/2009**	Analyst: **ALR**
Arsenic	**4.15**		**0.472**	**mg/Kg**	1	11/23/2009 11:51 PM
Barium	**103**		**0.472**	**mg/Kg**	1	11/23/2009 11:51 PM
Cadmium	**0.484**		**0.472**	**mg/Kg**	1	11/23/2009 11:51 PM
Chromium	**24.0**		**0.472**	**mg/Kg**	1	11/23/2009 11:51 PM
Lead	**50.8**		**0.472**	**mg/Kg**	1	11/23/2009 11:51 PM
Selenium	**1.45**		**0.472**	**mg/Kg**	1	11/23/2009 11:51 PM
Silver	ND		0.472	mg/Kg	1	11/23/2009 11:51 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *25-Nov-09*

Client: Holly Energy Partners
Project: South Plant Mercury Recap
Sample ID: SE Corner
Collection Date: 11/19/2009 09:25 AM

Work Order: 0911550
Lab ID: 0911550-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			**SW8015M**		Prep Date: **11/23/2009**	Analyst: **KMB**
TPH (Diesel Range)	**630**		**34**	**mg/Kg**	20	11/24/2009 10:45 AM
Surr: 2-Fluorobiphenyl	*172*	S	*70-130*	*%REC*	20	11/24/2009 10:45 AM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	**97**		**0.25**	**mg/Kg**	5	11/24/2009 04:14 PM
Surr: 4-Bromofluorobenzene	*87.4*		*70-130*	*%REC*	5	11/24/2009 04:14 PM
MERCURY			**SW7471A**		Prep Date: **11/23/2009**	Analyst: **JCJ**
Mercury	**31,200**		**356**	**µg/Kg**	100	11/24/2009 10:56 AM
METALS			**SW6020**		Prep Date: **11/23/2009**	Analyst: **ALR**
Arsenic	**3.05**		**0.455**	**mg/Kg**	1	11/23/2009 11:57 PM
Barium	**73.9**		**0.455**	**mg/Kg**	1	11/23/2009 11:57 PM
Cadmium	ND		0.455	mg/Kg	1	11/23/2009 11:57 PM
Chromium	**7.29**		**0.455**	**mg/Kg**	1	11/23/2009 11:57 PM
Lead	**28.0**		**0.455**	**mg/Kg**	1	11/23/2009 11:57 PM
Selenium	**0.605**		**0.455**	**mg/Kg**	1	11/23/2009 11:57 PM
Silver	ND		0.455	mg/Kg	1	11/23/2009 11:57 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *25-Nov-09*

Client: Holly Energy Partners
Project: South Plant Mercury Recap
Sample ID: SW Corner
Collection Date: 11/19/2009 09:27 AM

Work Order: 0911550
Lab ID: 0911550-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			**SW8015M**		Prep Date: **11/23/2009**	Analyst: **KMB**
TPH (Diesel Range)	**820**		**34**	**mg/Kg**	20	11/24/2009 11:04 AM
Surr: 2-Fluorobiphenyl	*403*	S	*70-130*	*%REC*	20	11/24/2009 11:04 AM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	**1.6**		**0.25**	**mg/Kg**	5	11/24/2009 04:39 PM
Surr: 4-Bromofluorobenzene	*72.6*		*70-130*	*%REC*	5	11/24/2009 04:39 PM
MERCURY			**SW7471A**		Prep Date: **11/23/2009**	Analyst: **JCJ**
Mercury	**320,000**		**3,530**	**µg/Kg**	1000	11/24/2009 10:20 AM
METALS			**SW6020**		Prep Date: **11/23/2009**	Analyst: **ALR**
Arsenic	**3.12**		**0.476**	**mg/Kg**	1	11/24/2009 12:03 AM
Barium	**101**		**0.476**	**mg/Kg**	1	11/24/2009 12:03 AM
Cadmium	**2.75**		**0.476**	**mg/Kg**	1	11/24/2009 12:03 AM
Chromium	**13.2**		**0.476**	**mg/Kg**	1	11/24/2009 12:03 AM
Lead	**28.6**		**0.476**	**mg/Kg**	1	11/24/2009 12:03 AM
Selenium	**1.64**		**0.476**	**mg/Kg**	1	11/24/2009 12:03 AM
Silver	ND		0.476	mg/Kg	1	11/24/2009 12:03 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *25-Nov-09*

Client: Holly Energy Partners
Project: South Plant Mercury Recap
Work Order: 0911550
Sample ID: Bottom 18"
Lab ID: 0911550-04
Collection Date: 11/19/2009 09:30 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			**SW8015M**		Prep Date: **11/23/2009**	Analyst: **KMB**
TPH (Diesel Range)	**4,700**		**340**	**mg/Kg**	200	11/25/2009 03:14 PM
Surr: 2-Fluorobiphenyl	*0*	S	*70-130*	*%REC*	200	11/25/2009 03:14 PM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	**92**		**0.25**	**mg/Kg**	5	11/24/2009 05:31 PM
Surr: 4-Bromofluorobenzene	*100*		*70-130*	*%REC*	5	11/24/2009 05:31 PM
MERCURY			**SW7471A**		Prep Date: **11/23/2009**	Analyst: **JCJ**
Mercury	**373,000**		**3,400**	**µg/Kg**	1000	11/24/2009 10:58 AM
METALS			**SW6020**		Prep Date: **11/23/2009**	Analyst: **ALR**
Arsenic	**1.97**		**0.435**	**mg/Kg**	1	11/24/2009 12:09 AM
Barium	**73.8**		**0.435**	**mg/Kg**	1	11/24/2009 12:09 AM
Cadmium	ND		0.435	mg/Kg	1	11/24/2009 12:09 AM
Chromium	**10.7**		**0.435**	**mg/Kg**	1	11/24/2009 12:09 AM
Lead	**19.7**		**0.435**	**mg/Kg**	1	11/24/2009 12:09 AM
Selenium	**0.902**		**0.435**	**mg/Kg**	1	11/24/2009 12:09 AM
Silver	ND		0.435	mg/Kg	1	11/24/2009 12:09 AM

Note: *See Qualifiers Page for a list of qualifiers and their explanation.*

ALS Laboratory Group

Date: *25-Nov-09*

Client: Holly Energy Partners
Project: South Plant Mercury Recap
Work Order: 0911550
Sample ID: NW Corner
Lab ID: 0911550-05
Collection Date: 11/19/2009 09:33 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			**SW8015M**		Prep Date: **11/23/2009**	Analyst: **KMB**
TPH (Diesel Range)	**1,300**		**34**	**mg/Kg**	20	11/24/2009 11:41 AM
Surr: 2-Fluorobiphenyl	*665*	S	*70-130*	*%REC*	20	11/24/2009 11:41 AM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	**90**		**0.25**	**mg/Kg**	5	11/24/2009 05:56 PM
Surr: 4-Bromofluorobenzene	*84.2*		*70-130*	*%REC*	5	11/24/2009 05:56 PM
MERCURY			**SW7471A**		Prep Date: **11/23/2009**	Analyst: **JCJ**
Mercury	**74,200**		**707**	**µg/Kg**	200	11/24/2009 11:00 AM
METALS			**SW6020**		Prep Date: **11/23/2009**	Analyst: **ALR**
Arsenic	**4.37**		**0.450**	**mg/Kg**	1	11/24/2009 12:15 AM
Barium	**146**		**0.450**	**mg/Kg**	1	11/24/2009 12:15 AM
Cadmium	**0.501**		**0.450**	**mg/Kg**	1	11/24/2009 12:15 AM
Chromium	**27.0**		**0.450**	**mg/Kg**	1	11/24/2009 12:15 AM
Lead	**63.7**		**0.450**	**mg/Kg**	1	11/24/2009 12:15 AM
Selenium	**1.52**		**0.450**	**mg/Kg**	1	11/24/2009 12:15 AM
Silver	ND		0.450	mg/Kg	1	11/24/2009 12:15 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *25-Nov-09*

Client: Holly Energy Partners
Project: South Plant Mercury Recap
Work Order: 0911550
Sample ID: West Wall
Lab ID: 0911550-06
Collection Date: 11/19/2009 09:35 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			**SW8015M**		Prep Date: **11/23/2009**	Analyst: **KMB**
TPH (Diesel Range)	**2,400**		**170**	**mg/Kg**	100	11/25/2009 03:33 PM
Surr: 2-Fluorobiphenyl	*0*	S	*70-130*	*%REC*	100	11/25/2009 03:33 PM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	**0.82**		**0.25**	**mg/Kg**	5	11/24/2009 02:56 PM
Surr: 4-Bromofluorobenzene	*70.2*		*70-130*	*%REC*	5	11/24/2009 02:56 PM
MERCURY			**SW7471A**		Prep Date: **11/23/2009**	Analyst: **JCJ**
Mercury	**20,600**		**354**	**µg/Kg**	100	11/24/2009 10:31 AM
METALS			**SW6020**		Prep Date: **11/23/2009**	Analyst: **ALR**
Arsenic	**2.95**		**0.476**	**mg/Kg**	1	11/24/2009 12:22 AM
Barium	**124**		**0.476**	**mg/Kg**	1	11/24/2009 12:22 AM
Cadmium	ND		0.476	mg/Kg	1	11/24/2009 12:22 AM
Chromium	**6.88**		**0.476**	**mg/Kg**	1	11/24/2009 12:22 AM
Lead	**22.4**		**0.476**	**mg/Kg**	1	11/24/2009 12:22 AM
Selenium	**0.538**		**0.476**	**mg/Kg**	1	11/24/2009 12:22 AM
Silver	ND		0.476	mg/Kg	1	11/24/2009 12:22 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

Page 1 of 1

ALS Project Manager: | ALS Work Order #: 61SSD

Customer Information		Project Information		Parameter/Method Request for Analysis
Purchase Order	South Plant Mercury Rebate	Project Name	~~Artesia Refinery Mercury~~	A Total Metals (6020/7000) ~~Digestion~~ Hg EPA 471
Work Order		Project Number	Nov-09-011	B GRO
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C DRO extended
Send Report To	Darrell Moore	Invoice Attn	Darrell Moore	D RCRA Total Metals
Address	P.O. Box 159	Address	P.O. Box 159	E F
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	G
Phone	(505) 748-3311	Phone	(505) 748-3311	H
Fax	(505) 746-5421	Fax	(505) 746-5421	I
e-Mail Address	darrell.moore@hollycorp.com	e-Mail Address	dgboyer@SESI-NM.com	J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	NE Corner	11/19/09	0922	Soil		1	✓	X	X	X							
2	SE Corner		0925			1	✓	X	X	X							
3	SW Corner		0927			1	✓	X	X	X							
4	Bottom 18"		0930			1	✓	X	X	X							
5	NW Corner		0933			1	✓	X	X	X							
6	West wall		0935			1	✓	X	X	X							
7	~~Drum 2 of 9~~ DB		~~0940~~	DB	DB	1	✓										
8	~~Composite Sample~~ DB		~~0950~~	DB	DB	1	✓										
9	~~Drum 9 of 9~~ DB		~~1130~~	H_2O DB													
10																	

Sampler(s) Please Print & Sign: Isaac Kincaid

Shipment Method: Fed Ex

Required Turnaround Time: (Check Box) ☐ Other 48hr ☐ 5 WK Days ☐ 2 WK Days ☐ 24 hour

Results Due Date:

Relinquished by:	Date: 11/20/09	Time: 1400	Received by:	Notes: 10 Work Days TAT.	
Relinquished by:	Date: 11/20/09	Time: 1600	Received by (Laboratory): 11/21/09 0835	Cooler ID:	Cooler Temp:
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):		

QC Package: (Check One Box Below)
- ☑ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other
- ☐ TRRP Checklist
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1) Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2) Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.

ALS Laboratory Group

Date: *17-Dec-09*

Client: Holly Energy Partners
Project: South Plant
Sample ID: Composite Drum
Collection Date: 12/2/2009 10:00 AM

Work Order: 0912072
Lab ID: 0912072-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			**SW8015M**		Prep Date: **12/7/2009**	Analyst: **KMB**
TPH (Diesel Range)	**3,000**		**130**	**mg/Kg**	50	12/15/2009 10:32 AM
Surr: 2-Fluorobiphenyl	*0*	S	*70-130*	*%REC*	50	12/15/2009 10:32 AM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	**98**		**0.25**	**mg/Kg**	5	12/15/2009 01:04 PM
Surr: 4-Bromofluorobenzene	*182*	S	*70-130*	*%REC*	5	12/15/2009 01:04 PM
MERCURY			**SW7471A**		Prep Date: **12/11/2009**	Analyst: **JCJ**
Mercury	**3,550,000**		**34,200**	**µg/Kg**	10000	12/11/2009 07:04 PM
METALS			**SW6020**		Prep Date: **12/4/2009**	Analyst: **SKS**
Arsenic	**5.65**		**0.446**	**mg/Kg**	1	12/4/2009 07:48 PM
Barium	**124**		**0.446**	**mg/Kg**	1	12/4/2009 07:48 PM
Cadmium	**1.91**		**0.446**	**mg/Kg**	1	12/4/2009 07:48 PM
Chromium	**58.5**		**0.446**	**mg/Kg**	1	12/4/2009 07:48 PM
Lead	**38.3**		**0.446**	**mg/Kg**	1	12/4/2009 07:48 PM
Selenium	**3.05**		**0.446**	**mg/Kg**	1	12/4/2009 07:48 PM
Silver	ND		0.446	mg/Kg	1	12/4/2009 07:48 PM
SEMIVOLATILES			**SW8270**		Prep Date: **12/8/2009**	Analyst: **ACN**
1,2,4-Trichlorobenzene	ND		250	µg/Kg	1	12/12/2009 11:18 PM
1,2-Dichlorobenzene	ND		250	µg/Kg	1	12/12/2009 11:18 PM
1,3-Dichlorobenzene	ND		250	µg/Kg	1	12/12/2009 11:18 PM
1,4-Dichlorobenzene	ND		250	µg/Kg	1	12/12/2009 11:18 PM
2,4,5-Trichlorophenol	ND		250	µg/Kg	1	12/12/2009 11:18 PM
2,4,6-Trichlorophenol	ND		250	µg/Kg	1	12/12/2009 11:18 PM
2,4-Dichlorophenol	ND		250	µg/Kg	1	12/12/2009 11:18 PM
2,4-Dimethylphenol	ND		250	µg/Kg	1	12/12/2009 11:18 PM
2,4-Dinitrophenol	ND		250	µg/Kg	1	12/12/2009 11:18 PM
2,4-Dinitrotoluene	ND		250	µg/Kg	1	12/12/2009 11:18 PM
2,6-Dinitrotoluene	ND		250	µg/Kg	1	12/12/2009 11:18 PM
2-Chloronaphthalene	ND		250	µg/Kg	1	12/12/2009 11:18 PM
2-Chlorophenol	ND		250	µg/Kg	1	12/12/2009 11:18 PM
2-Methylnaphthalene	**26,000**		**1,300**	**µg/Kg**	5	12/9/2009 03:15 AM
2-Methylphenol	ND		250	µg/Kg	1	12/12/2009 11:18 PM
2-Nitroaniline	ND		250	µg/Kg	1	12/12/2009 11:18 PM
2-Nitrophenol	ND		250	µg/Kg	1	12/12/2009 11:18 PM
3&4-Methylphenol	ND		250	µg/Kg	1	12/12/2009 11:18 PM
3,3'-Dichlorobenzidine	ND		250	µg/Kg	1	12/12/2009 11:18 PM
3-Nitroaniline	ND		250	µg/Kg	1	12/12/2009 11:18 PM
4,6-Dinitro-2-methylphenol	ND		250	µg/Kg	1	12/12/2009 11:18 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *17-Dec-09*

Client: Holly Energy Partners
Project: South Plant
Sample ID: Composite Drum
Collection Date: 12/2/2009 10:00 AM

Work Order: 0912072
Lab ID: 0912072-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4-Bromophenyl phenyl ether	ND		250	µg/Kg	1	12/12/2009 11:18 PM
4-Chloro-3-methylphenol	ND		250	µg/Kg	1	12/12/2009 11:18 PM
4-Chloroaniline	ND		250	µg/Kg	1	12/12/2009 11:18 PM
4-Chlorophenyl phenyl ether	ND		250	µg/Kg	1	12/12/2009 11:18 PM
4-Nitroaniline	ND		250	µg/Kg	1	12/12/2009 11:18 PM
4-Nitrophenol	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Acenaphthene	**360**		**250**	**µg/Kg**	1	12/12/2009 11:18 PM
Acenaphthylene	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Anthracene	**350**		**250**	**µg/Kg**	1	12/12/2009 11:18 PM
Benz(a)anthracene	**400**		**250**	**µg/Kg**	1	12/12/2009 11:18 PM
Benzo(a)pyrene	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Benzo(b)fluoranthene	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Benzo(g,h,i)perylene	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Benzo(k)fluoranthene	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Bis(2-chloroethoxy)methane	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Bis(2-chloroethyl)ether	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Bis(2-chloroisopropyl)ether	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Bis(2-ethylhexyl)phthalate	**29,000**		**1,300**	**µg/Kg**	5	12/9/2009 03:15 AM
Butyl benzyl phthalate	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Carbazole	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Chrysene	**770**		**250**	**µg/Kg**	1	12/12/2009 11:18 PM
Di-n-butyl phthalate	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Di-n-octyl phthalate	**450**		**250**	**µg/Kg**	1	12/12/2009 11:18 PM
Dibenz(a,h)anthracene	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Dibenzofuran	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Diethyl phthalate	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Dimethyl phthalate	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Fluoranthene	**530**		**250**	**µg/Kg**	1	12/12/2009 11:18 PM
Fluorene	**780**		**250**	**µg/Kg**	1	12/12/2009 11:18 PM
Hexachlorobenzene	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Hexachlorobutadiene	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Hexachlorocyclopentadiene	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Hexachloroethane	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Indeno(1,2,3-cd)pyrene	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Isophorone	ND		250	µg/Kg	1	12/12/2009 11:18 PM
N-Nitrosodi-n-propylamine	ND		250	µg/Kg	1	12/12/2009 11:18 PM
N-Nitrosodiphenylamine	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Naphthalene	**7,600**		**250**	**µg/Kg**	1	12/12/2009 11:18 PM
Nitrobenzene	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Pentachlorophenol	ND		250	µg/Kg	1	12/12/2009 11:18 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *17-Dec-09*

Client: Holly Energy Partners
Project: South Plant
Sample ID: Composite Drum
Collection Date: 12/2/2009 10:00 AM

Work Order: 0912072
Lab ID: 0912072-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Phenanthrene	**5,000**		**250**	**µg/Kg**	1	12/12/2009 11:18 PM
Phenol	ND		250	µg/Kg	1	12/12/2009 11:18 PM
Pyrene	**1,700**		**250**	**µg/Kg**	1	12/12/2009 11:18 PM
Surr: 2,4,6-Tribromophenol	*93.9*		*36-126*	*%REC*	1	12/12/2009 11:18 PM
Surr: 2,4,6-Tribromophenol	*73.8*		*36-126*	*%REC*	5	12/9/2009 03:15 AM
Surr: 2-Fluorobiphenyl	*82.5*		*43-125*	*%REC*	1	12/12/2009 11:18 PM
Surr: 2-Fluorobiphenyl	*81.9*		*43-125*	*%REC*	5	12/9/2009 03:15 AM
Surr: 2-Fluorophenol	*77.2*		*37-125*	*%REC*	1	12/12/2009 11:18 PM
Surr: 2-Fluorophenol	*65.8*		*37-125*	*%REC*	5	12/9/2009 03:15 AM
Surr: 4-Terphenyl-d14	*78.5*		*32-125*	*%REC*	5	12/9/2009 03:15 AM
Surr: 4-Terphenyl-d14	*85.1*		*32-125*	*%REC*	1	12/12/2009 11:18 PM
Surr: Nitrobenzene-d5	*71.1*		*37-125*	*%REC*	5	12/9/2009 03:15 AM
Surr: Nitrobenzene-d5	*72.6*		*37-125*	*%REC*	1	12/12/2009 11:18 PM
Surr: Phenol-d6	*84.0*		*40-125*	*%REC*	1	12/12/2009 11:18 PM
Surr: Phenol-d6	*72.1*		*40-125*	*%REC*	5	12/9/2009 03:15 AM
TCL VOLATILES			**SW8260**			Analyst: **WLR**
1,1,1-Trichloroethane	ND		0.012	mg/Kg	2.5	12/13/2009 05:00 AM
1,1,2,2-Tetrachloroethane	ND		0.012	mg/Kg	2.5	12/13/2009 05:00 AM
1,1,2-Trichloroethane	ND		0.012	mg/Kg	2.5	12/13/2009 05:00 AM
1,1-Dichloroethane	ND		0.012	mg/Kg	2.5	12/13/2009 05:00 AM
1,1-Dichloroethene	ND		0.012	mg/Kg	2.5	12/13/2009 05:00 AM
1,2-Dichloroethane	ND		0.012	mg/Kg	2.5	12/13/2009 05:00 AM
1,2-Dichloropropane	ND		0.012	mg/Kg	2.5	12/13/2009 05:00 AM
2-Butanone	ND		0.025	mg/Kg	2.5	12/13/2009 05:00 AM
2-Hexanone	ND		0.025	mg/Kg	2.5	12/13/2009 05:00 AM
4-Methyl-2-pentanone	ND		0.025	mg/Kg	2.5	12/13/2009 05:00 AM
Acetone	**0.087**		**0.062**	**mg/Kg**	2.5	12/13/2009 05:00 AM
Benzene	**0.11**		**0.012**	**mg/Kg**	2.5	12/13/2009 05:00 AM
Bromodichloromethane	ND		0.012	mg/Kg	2.5	12/13/2009 05:00 AM
Bromoform	ND		0.025	mg/Kg	2.5	12/13/2009 05:00 AM
Bromomethane	ND		0.025	mg/Kg	2.5	12/13/2009 05:00 AM
Carbon disulfide	ND		0.025	mg/Kg	2.5	12/13/2009 05:00 AM
Carbon tetrachloride	ND		0.012	mg/Kg	2.5	12/13/2009 05:00 AM
Chlorobenzene	ND		0.012	mg/Kg	2.5	12/13/2009 05:00 AM
Chloroethane	ND		0.025	mg/Kg	2.5	12/13/2009 05:00 AM
Chloroform	ND		0.012	mg/Kg	2.5	12/13/2009 05:00 AM
Chloromethane	ND		0.025	mg/Kg	2.5	12/13/2009 05:00 AM
cis-1,2-Dichloroethene	ND		0.012	mg/Kg	2.5	12/13/2009 05:00 AM
cis-1,3-Dichloropropene	ND		0.012	mg/Kg	2.5	12/13/2009 05:00 AM
Dibromochloromethane	ND		0.012	mg/Kg	2.5	12/13/2009 05:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *17-Dec-09*

Client: Holly Energy Partners
Project: South Plant
Sample ID: Composite Drum
Collection Date: 12/2/2009 10:00 AM

Work Order: 0912072
Lab ID: 0912072-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dichloromethane	ND		0.025	mg/Kg	2.5	12/13/2009 05:00 AM
Ethylbenzene	**0.12**		**0.012**	**mg/Kg**	2.5	12/13/2009 05:00 AM
Methyl tert-butyl ether	ND			mg/Kg	2.5	12/13/2009 05:00 AM
Styrene	ND		0.012	mg/Kg	2.5	12/13/2009 05:00 AM
Tetrachloroethene	ND		0.012	mg/Kg	2.5	12/13/2009 05:00 AM
Toluene	**0.15**		**0.012**	**mg/Kg**	2.5	12/8/2009 09:21 PM
trans-1,2-Dichloroethene	ND		0.012	mg/Kg	2.5	12/13/2009 05:00 AM
trans-1,3-Dichloropropene	ND		0.012	mg/Kg	2.5	12/13/2009 05:00 AM
Trichloroethene	ND		0.012	mg/Kg	2.5	12/13/2009 05:00 AM
Vinyl chloride	ND		0.0050	mg/Kg	2.5	12/13/2009 05:00 AM
Xylenes, Total	**0.90**		**0.038**	**mg/Kg**	2.5	12/13/2009 05:00 AM
Surr: 1,2-Dichloroethane-d4	*112*		*70-128*	*%REC*	2.5	12/13/2009 05:00 AM
Surr: 1,2-Dichloroethane-d4	*94.8*		*70-128*	*%REC*	2.5	12/8/2009 09:21 PM
Surr: 4-Bromofluorobenzene	*98.1*		*73-126*	*%REC*	2.5	12/8/2009 09:21 PM
Surr: 4-Bromofluorobenzene	*116*		*73-126*	*%REC*	2.5	12/13/2009 05:00 AM
Surr: Dibromofluoromethane	*90.9*		*71-128*	*%REC*	2.5	12/8/2009 09:21 PM
Surr: Dibromofluoromethane	*99.1*		*71-128*	*%REC*	2.5	12/13/2009 05:00 AM
Surr: Toluene-d8	*101*		*73-127*	*%REC*	2.5	12/8/2009 09:21 PM
Surr: Toluene-d8	*104*		*73-127*	*%REC*	2.5	12/13/2009 05:00 AM
REACTIVE CYANIDE			**SW-846**			Analyst: **HN**
Reactive Cyanide	ND		40.0	mg/Kg	1	12/4/2009 11:45 AM
REACTIVE SULFIDE			**SW-846**			Analyst: **HN**
Reactive Sulfide	ND		40.0	mg/Kg	1	12/4/2009 11:45 AM
IGNITABILITY			**SW1030**			Analyst: **TDW**
Ignitability, Solid	**Negative**			**no unit**	1	12/4/2009 10:00 AM
PH			**SW9045B**			Analyst: **TDW**
pH	**8.82**		**0.100**	**pH Units**	1	12/10/2009 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *17-Dec-09*

Client: Holly Energy Partners
Project: South Plant
Sample ID: Drum 2 of 9
Collection Date: 12/2/2009 10:15 AM

Work Order: 0912072
Lab ID: 0912072-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			**SW8015M**		Prep Date: **12/7/2009**	Analyst: **KMB**
TPH (Diesel Range)	**890**		**34**	**mg/Kg**	20	12/15/2009 10:51 AM
Surr: 2-Fluorobiphenyl	*0*	S	*70-130*	*%REC*	20	12/15/2009 10:51 AM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	**23**		**0.25**	**mg/Kg**	5	12/7/2009 01:04 PM
Surr: 4-Bromofluorobenzene	*127*		*70-130*	*%REC*	5	12/7/2009 01:04 PM
MERCURY			**SW7471A**		Prep Date: **12/15/2009**	Analyst: **JCJ**
Mercury	**7,410,000**		**173,000**	**µg/Kg**	50000	12/15/2009 04:47 PM
METALS			**SW6020**		Prep Date: **12/4/2009**	Analyst: **SKS**
Arsenic	**3.67**		**0.435**	**mg/Kg**	1	12/7/2009 06:17 PM
Barium	**107**		**0.435**	**mg/Kg**	1	12/7/2009 06:17 PM
Cadmium	ND		0.435	mg/Kg	1	12/7/2009 06:17 PM
Chromium	**19.3**		**0.435**	**mg/Kg**	1	12/7/2009 06:17 PM
Lead	**33.5**		**0.435**	**mg/Kg**	1	12/7/2009 06:17 PM
Selenium	**0.711**		**0.435**	**mg/Kg**	1	12/7/2009 06:17 PM
Silver	ND		0.435	mg/Kg	1	12/7/2009 06:17 PM
SEMIVOLATILES			**SW8270**		Prep Date: **12/8/2009**	Analyst: **ACN**
1,2,4-Trichlorobenzene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
1,2-Dichlorobenzene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
1,3-Dichlorobenzene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
1,4-Dichlorobenzene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
2,4,5-Trichlorophenol	ND		170	µg/Kg	1	12/13/2009 12:27 AM
2,4,6-Trichlorophenol	ND		170	µg/Kg	1	12/13/2009 12:27 AM
2,4-Dichlorophenol	ND		170	µg/Kg	1	12/13/2009 12:27 AM
2,4-Dimethylphenol	ND		170	µg/Kg	1	12/13/2009 12:27 AM
2,4-Dinitrophenol	ND		170	µg/Kg	1	12/13/2009 12:27 AM
2,4-Dinitrotoluene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
2,6-Dinitrotoluene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
2-Chloronaphthalene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
2-Chlorophenol	ND		170	µg/Kg	1	12/13/2009 12:27 AM
2-Methylnaphthalene	**2,000**		**170**	**µg/Kg**	1	12/13/2009 12:27 AM
2-Methylphenol	ND		170	µg/Kg	1	12/13/2009 12:27 AM
2-Nitroaniline	ND		170	µg/Kg	1	12/13/2009 12:27 AM
2-Nitrophenol	ND		170	µg/Kg	1	12/13/2009 12:27 AM
3&4-Methylphenol	ND		170	µg/Kg	1	12/13/2009 12:27 AM
3,3'-Dichlorobenzidine	ND		170	µg/Kg	1	12/13/2009 12:27 AM
3-Nitroaniline	ND		170	µg/Kg	1	12/13/2009 12:27 AM
4,6-Dinitro-2-methylphenol	ND		170	µg/Kg	1	12/13/2009 12:27 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *17-Dec-09*

Client: Holly Energy Partners
Project: South Plant
Sample ID: Drum 2 of 9
Collection Date: 12/2/2009 10:15 AM

Work Order: 0912072
Lab ID: 0912072-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4-Bromophenyl phenyl ether	ND		170	µg/Kg	1	12/13/2009 12:27 AM
4-Chloro-3-methylphenol	ND		170	µg/Kg	1	12/13/2009 12:27 AM
4-Chloroaniline	ND		170	µg/Kg	1	12/13/2009 12:27 AM
4-Chlorophenyl phenyl ether	ND		170	µg/Kg	1	12/13/2009 12:27 AM
4-Nitroaniline	ND		170	µg/Kg	1	12/13/2009 12:27 AM
4-Nitrophenol	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Acenaphthene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Acenaphthylene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Anthracene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Benz(a)anthracene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Benzo(a)pyrene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Benzo(b)fluoranthene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Benzo(g,h,i)perylene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Benzo(k)fluoranthene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Bis(2-chloroethoxy)methane	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Bis(2-chloroethyl)ether	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Bis(2-chloroisopropyl)ether	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Bis(2-ethylhexyl)phthalate	**3,000**		**170**	**µg/Kg**	1	12/13/2009 12:27 AM
Butyl benzyl phthalate	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Carbazole	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Chrysene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Di-n-butyl phthalate	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Di-n-octyl phthalate	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Dibenz(a,h)anthracene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Dibenzofuran	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Diethyl phthalate	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Dimethyl phthalate	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Fluoranthene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Fluorene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Hexachlorobenzene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Hexachlorobutadiene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Hexachlorocyclopentadiene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Hexachloroethane	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Indeno(1,2,3-cd)pyrene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Isophorone	ND		170	µg/Kg	1	12/13/2009 12:27 AM
N-Nitrosodi-n-propylamine	ND		170	µg/Kg	1	12/13/2009 12:27 AM
N-Nitrosodiphenylamine	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Naphthalene	**180**		**170**	**µg/Kg**	1	12/13/2009 12:27 AM
Nitrobenzene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Pentachlorophenol	ND		170	µg/Kg	1	12/13/2009 12:27 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *17-Dec-09*

Client: Holly Energy Partners
Project: South Plant
Sample ID: Drum 2 of 9
Collection Date: 12/2/2009 10:15 AM

Work Order: 0912072
Lab ID: 0912072-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Phenanthrene	**380**		**170**	**µg/Kg**	1	12/13/2009 12:27 AM
Phenol	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Pyrene	ND		170	µg/Kg	1	12/13/2009 12:27 AM
Surr: 2,4,6-Tribromophenol	*91.3*		*36-126*	*%REC*	1	12/13/2009 12:27 AM
Surr: 2-Fluorobiphenyl	*65.5*		*43-125*	*%REC*	1	12/13/2009 12:27 AM
Surr: 2-Fluorophenol	*45.2*		*37-125*	*%REC*	1	12/13/2009 12:27 AM
Surr: 4-Terphenyl-d14	*80.4*		*32-125*	*%REC*	1	12/13/2009 12:27 AM
Surr: Nitrobenzene-d5	*50.3*		*37-125*	*%REC*	1	12/13/2009 12:27 AM
Surr: Phenol-d6	*57.0*		*40-125*	*%REC*	1	12/13/2009 12:27 AM
TCL VOLATILES			**SW8260**			Analyst: **RKG**
1,1,1-Trichloroethane	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
1,1,2,2-Tetrachloroethane	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
1,1,2-Trichloroethane	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
1,1-Dichloroethane	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
1,1-Dichloroethene	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
1,2-Dichloroethane	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
1,2-Dichloropropane	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
2-Butanone	**0.033**		**0.025**	**mg/Kg**	2.5	12/11/2009 08:38 PM
2-Hexanone	ND		0.025	mg/Kg	2.5	12/11/2009 08:38 PM
4-Methyl-2-pentanone	ND		0.025	mg/Kg	2.5	12/11/2009 08:38 PM
Acetone	ND		0.062	mg/Kg	2.5	12/11/2009 08:38 PM
Benzene	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
Bromodichloromethane	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
Bromoform	ND		0.025	mg/Kg	2.5	12/11/2009 08:38 PM
Bromomethane	ND		0.025	mg/Kg	2.5	12/11/2009 08:38 PM
Carbon disulfide	ND		0.025	mg/Kg	2.5	12/11/2009 08:38 PM
Carbon tetrachloride	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
Chlorobenzene	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
Chloroethane	ND		0.025	mg/Kg	2.5	12/11/2009 08:38 PM
Chloroform	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
Chloromethane	ND		0.025	mg/Kg	2.5	12/11/2009 08:38 PM
cis-1,2-Dichloroethene	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
cis-1,3-Dichloropropene	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
Dibromochloromethane	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
Dichloromethane	ND		0.025	mg/Kg	2.5	12/11/2009 08:38 PM
Ethylbenzene	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
Methyl tert-butyl ether	ND			mg/Kg	2.5	12/11/2009 08:38 PM
Styrene	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
Tetrachloroethene	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
Toluene	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Holly Energy Partners
Project: South Plant
Sample ID: Drum 2 of 9
Collection Date: 12/2/2009 10:15 AM

Work Order: 0912072
Lab ID: 0912072-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,2-Dichloroethene	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
trans-1,3-Dichloropropene	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
Trichloroethene	ND		0.012	mg/Kg	2.5	12/11/2009 08:38 PM
Vinyl chloride	ND		0.0050	mg/Kg	2.5	12/11/2009 08:38 PM
Xylenes, Total	**0.27**		**0.038**	**mg/Kg**	2.5	12/11/2009 08:38 PM
Surr: 1,2-Dichloroethane-d4	*104*		*70-128*	*%REC*	2.5	12/11/2009 08:38 PM
Surr: 4-Bromofluorobenzene	*95.1*		*73-126*	*%REC*	2.5	12/11/2009 08:38 PM
Surr: Dibromofluoromethane	*95.3*		*71-128*	*%REC*	2.5	12/11/2009 08:38 PM
Surr: Toluene-d8	*104*		*73-127*	*%REC*	2.5	12/11/2009 08:38 PM
REACTIVE CYANIDE			**SW-846**			Analyst: **HN**
Reactive Cyanide	ND		40.0	mg/Kg	1	12/4/2009 11:45 AM
REACTIVE SULFIDE			**SW-846**			Analyst: **HN**
Reactive Sulfide	ND		40.0	mg/Kg	1	12/4/2009 11:45 AM
IGNITABILITY			**SW1030**			Analyst: **TDW**
Ignitability, Solid	**Negative**			**no unit**	1	12/4/2009 10:00 AM
PH			**SW9045B**			Analyst: **TDW**
pH	**7.98**		**0.100**	**pH Units**	1	12/10/2009 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *17-Dec-09*

Client: Holly Energy Partners
Project: South Plant
Sample ID: Drum 9 of 9
Collection Date: 12/2/2009 10:30 AM

Work Order: 0912072
Lab ID: 0912072-03
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO			**SW8015M**		Prep Date: **12/4/2009**	Analyst: **KMB**
TPH (Diesel Range)	**1.4**		**0.050**	**mg/L**	1	12/7/2009 02:47 PM
Surr: 2-Fluorobiphenyl	*115*		*70-130*	*%REC*	1	12/7/2009 02:47 PM
GASOLINE RANGE ORGANICS			**SW8015**			Analyst: **RKG**
Gasoline Range Organics	ND		0.500	mg/L	10	12/9/2009 02:47 PM
Surr: 4-Bromofluorobenzene	*90.3*		*70-130*	*%REC*	10	12/9/2009 02:47 PM
MERCURY			**SW7470**		Prep Date: **12/8/2009**	Analyst: **JCJ**
Mercury	**0.00303**		**0.000200**	**mg/L**	1	12/8/2009 03:29 PM
METALS			**SW6020**		Prep Date: **12/4/2009**	Analyst: **ALR**
Arsenic	ND		0.00500	mg/L	1	12/4/2009 09:57 PM
Barium	ND		0.00500	mg/L	1	12/4/2009 09:57 PM
Cadmium	ND		0.00200	mg/L	1	12/4/2009 09:57 PM
Chromium	ND		0.00500	mg/L	1	12/4/2009 09:57 PM
Lead	**0.0101**		**0.00500**	**mg/L**	1	12/4/2009 09:57 PM
Selenium	ND		0.00500	mg/L	1	12/4/2009 09:57 PM
Silver	ND		0.00500	mg/L	1	12/4/2009 09:57 PM
SEMIVOLATILES			**SW8270**		Prep Date: **12/8/2009**	Analyst: **ACN**
1,2,4-Trichlorobenzene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
1,2-Dichlorobenzene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
1,3-Dichlorobenzene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
1,4-Dichlorobenzene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
2,4,5-Trichlorophenol	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
2,4,6-Trichlorophenol	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
2,4-Dichlorophenol	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
2,4-Dimethylphenol	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
2,4-Dinitrophenol	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
2,4-Dinitrotoluene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
2,6-Dinitrotoluene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
2-Chloronaphthalene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
2-Chlorophenol	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
2-Methylnaphthalene	**0.013**		**0.0050**	**mg/L**	1	12/8/2009 10:23 PM
2-Methylphenol	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
2-Nitroaniline	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
2-Nitrophenol	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
3&4-Methylphenol	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
3,3'-Dichlorobenzidine	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
3-Nitroaniline	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
4,6-Dinitro-2-methylphenol	ND		0.0050	mg/L	1	12/8/2009 10:23 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *17-Dec-09*

Client: Holly Energy Partners
Project: South Plant
Sample ID: Drum 9 of 9
Collection Date: 12/2/2009 10:30 AM

Work Order: 0912072
Lab ID: 0912072-03
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4-Bromophenyl phenyl ether	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
4-Chloro-3-methylphenol	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
4-Chloroaniline	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
4-Chlorophenyl phenyl ether	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
4-Nitroaniline	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
4-Nitrophenol	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Acenaphthene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Acenaphthylene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Anthracene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Benz(a)anthracene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Benzo(a)pyrene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Benzo(b)fluoranthene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Benzo(g,h,i)perylene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Benzo(k)fluoranthene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Bis(2-chloroethoxy)methane	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Bis(2-chloroethyl)ether	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Bis(2-chloroisopropyl)ether	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Bis(2-ethylhexyl)phthalate	**0.010**		**0.0050**	**mg/L**	1	12/8/2009 10:23 PM
Butyl benzyl phthalate	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Carbazole	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Chrysene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Di-n-butyl phthalate	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Di-n-octyl phthalate	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Dibenz(a,h)anthracene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Dibenzofuran	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Diethyl phthalate	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Dimethyl phthalate	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Fluoranthene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Fluorene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Hexachlorobenzene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Hexachlorobutadiene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Hexachlorocyclopentadiene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Hexachloroethane	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Indeno(1,2,3-cd)pyrene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Isophorone	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
N-Nitrosodi-n-propylamine	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
N-Nitrosodiphenylamine	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Naphthalene	**0.0061**		**0.0050**	**mg/L**	1	12/8/2009 10:23 PM
Nitrobenzene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Pentachlorophenol	ND		0.0050	mg/L	1	12/8/2009 10:23 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Holly Energy Partners
Project: South Plant **Work Order:** 0912072
Sample ID: Drum 9 of 9 **Lab ID:** 0912072-03
Collection Date: 12/2/2009 10:30 AM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Phenanthrene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Phenol	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Pyrene	ND		0.0050	mg/L	1	12/8/2009 10:23 PM
Surr: 2,4,6-Tribromophenol	*74.8*		*42-124*	*%REC*	1	12/8/2009 10:23 PM
Surr: 2-Fluorobiphenyl	*75.8*		*48-120*	*%REC*	1	12/8/2009 10:23 PM
Surr: 2-Fluorophenol	*67.1*		*20-120*	*%REC*	1	12/8/2009 10:23 PM
Surr: 4-Terphenyl-d14	*74.4*		*51-135*	*%REC*	1	12/8/2009 10:23 PM
Surr: Nitrobenzene-d5	*70.5*		*41-120*	*%REC*	1	12/8/2009 10:23 PM
Surr: Phenol-d6	*71.0*		*20-120*	*%REC*	1	12/8/2009 10:23 PM
TCL VOLATILES			**SW8260**			Analyst: **PC**
1,1,1-Trichloroethane	ND		0.25	mg/L	50	12/7/2009 05:49 PM
1,1,2,2-Tetrachloroethane	ND		0.25	mg/L	50	12/7/2009 05:49 PM
1,1,2-Trichloroethane	ND		0.25	mg/L	50	12/7/2009 05:49 PM
1,1-Dichloroethane	ND		0.25	mg/L	50	12/7/2009 05:49 PM
1,1-Dichloroethene	ND		0.25	mg/L	50	12/7/2009 05:49 PM
1,2-Dichloroethane	ND		0.25	mg/L	50	12/7/2009 05:49 PM
1,2-Dichloropropane	ND		0.25	mg/L	50	12/7/2009 05:49 PM
2-Butanone	ND		0.50	mg/L	50	12/7/2009 05:49 PM
2-Hexanone	ND		0.50	mg/L	50	12/7/2009 05:49 PM
4-Methyl-2-pentanone	ND		0.50	mg/L	50	12/7/2009 05:49 PM
Acetone	ND		0.50	mg/L	50	12/7/2009 05:49 PM
Benzene	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Bromodichloromethane	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Bromoform	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Bromomethane	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Carbon disulfide	ND		0.50	mg/L	50	12/7/2009 05:49 PM
Carbon tetrachloride	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Chlorobenzene	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Chloroethane	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Chloroform	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Chloromethane	ND		0.25	mg/L	50	12/7/2009 05:49 PM
cis-1,2-Dichloroethene	ND		0.25	mg/L	50	12/7/2009 05:49 PM
cis-1,3-Dichloropropene	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Dibromochloromethane	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Dichloromethane	ND		0.50	mg/L	50	12/7/2009 05:49 PM
Ethylbenzene	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Methyl tert-butyl ether	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Styrene	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Tetrachloroethene	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Toluene	ND		0.25	mg/L	50	12/7/2009 05:49 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *17-Dec-09*

Client: Holly Energy Partners
Project: South Plant
Sample ID: Drum 9 of 9
Collection Date: 12/2/2009 10:30 AM

Work Order: 0912072
Lab ID: 0912072-03
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,2-Dichloroethene	ND		0.25	mg/L	50	12/7/2009 05:49 PM
trans-1,3-Dichloropropene	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Trichloroethene	ND		0.25	mg/L	50	12/7/2009 05:49 PM
Vinyl chloride	ND		0.10	mg/L	50	12/7/2009 05:49 PM
Xylenes, Total	ND		0.75	mg/L	50	12/7/2009 05:49 PM
Surr: 1,2-Dichloroethane-d4	*111*		*70-125*	*%REC*	50	12/7/2009 05:49 PM
Surr: 4-Bromofluorobenzene	*97.7*		*72-125*	*%REC*	50	12/7/2009 05:49 PM
Surr: Dibromofluoromethane	*95.9*		*71-125*	*%REC*	50	12/7/2009 05:49 PM
Surr: Toluene-d8	*95.5*		*75-125*	*%REC*	50	12/7/2009 05:49 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

[redacted] Chain of C[redacted]stody [redacted]orm [redacted] ALS L[redacted]bra[redacted] G[redacted]p [redacted]

ALS [redacted]
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Page 1 of 1

3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager: | ALS Work Order #: 0912073

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	South Plant Hg Release	A	VOC (8260) TCL
Work Order		Project Number		B	GRO (8015M)
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C	DRO (8015M)
Send Report To	Darrell Moore	Invoice Attn	Darrell Moore	D	SVOC (8270) TCL
Address	P.O. Box 159	Address	P.O. Box 159	E	Total Metals (6020/7000) RCRA 8
				F	RCI Profile
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	G	
Phone	(505) 748-3311	Phone	(505) 748-3311	H	
Fax	(505) 746-5421	Fax	(505) 746-5421	I	
e-Mail Address	dgboyer@SESI-NM.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Composite Drum	12/2/09	1000	Soil		4	✓	✓	✓	✓	✓	✓					
2	Drum 2 of 9	12/2/09	1015	Soil		4	✓	✓	✓	✓	✓	✓					
3	Drum 9 of 9	12/2/09	1030	H_2O	1 + 2	11	✓	✓	✓	✓	✓	✓					
4	Temp Blank			H_2O													
5	Trip Blank			H_2O	1	2	✓										
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Isaac Kincaid [signature]

Shipment Method: Fed EX

Required Turnaround Time: (Check Box) ☑ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes: 10 Day TAT.
[signature]	12/2/09	1400		
Relinquished by:	Date:	Time:	Received by (Laboratory): [signature] 12/3/09 09:00	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)
		☑ Level II Std QC ☐ TRRP CheckList
		☐ Level III Std QC/Raw Data ☐ TRRP Level IV
		☐ Level IV SW846/CLP
		☐ Other ______

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Navajo Refining Company	Contact Darrell Moore
Address 501 E Main Artesia , NM	Telephone No. 575-746-5281
Facility Name Artesia Plant	Facility Type Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release Fire	Volume of Release NA	Volume Recovered NA
Source of Release North Plant Flare	Date and Hour of Occurrence January 26, 2009 1:00 am	Date and Hour of Discovery January 26, 2009 1:00 am
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
North Plant Flare "burped" hydrocarbon and started a small fire just north of the flare on Navajo property. The fire was put out immediately by Navajo personnel by simply stomping on the fire. Navajo's fire department was not even mobilized.

Describe Area Affected and Cleanup Action Taken.*
Area effected was north of Eagle Draw between Freeman Street and Eagle Draw. No clean up action was required.

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: Darrell Moore	OIL CONSERVATION DIVISION	
Printed Name: Darrell Moore	Approved by District Supervisor:	
Title: Environmental Manager for Water and Waste	Approval Date:	Expiration Date:
E-mail Address: Darrell.moore@hollycorp.com	Conditions of Approval:	Attached ☐
Date: January 26, 2009 Phone: 575-746-5281		

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Navajo Refining Co-Lea Refining	Contact Darrell Moore
Address 7406 S. Main Lovington, NM	Telephone No. 575-746-5281
Facility Name	Facility Type Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release Fire	Volume of Release N/A	Volume Recovered N/A
Source of Release Loose Unions	Date and Hour of Occurrence2/25/09 2:00 am	Date and Hour of Discovery 2/25/09 2:00 am
Was Immediate Notice Given? ☐ Yes ☒ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☐ No NA	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
The plant has been in expansion mode and turn around mode as well. When starting up the plant, two unions on a fuel gas line to the Crude Charge heater had not been tightened. The leaking gas ignited. The fire was put out immediately but some pipes were warped by the heat.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the Crude Charge Heater. Pipes will be replaced.

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: Darrell Moore	OIL CONSERVATION DIVISION	
Printed Name: Darrell Moore	Approved by District Supervisor:	
Title: Environmental Manager for Water and Waste	Approval Date:	Expiration Date:
E-mail Address: Darrell.moore@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 2/25/09 Phone: 575-746-5281		

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company NAVAJO REFINING COMPANY	Contact DARRELL MOORE
Address 501 E MAIN ARTESIA, NM 88211	Telephone No. 575-746-5281
Facility Name ARTESIA PLANT	Facility Type PETROLEUM REFINERY

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release FIRE	Volume of Release NA	Volume Recovered NA
Source of Release FIRE IN TK 409	Date and Hour of Occurrence 9:40 AM APRIL 21, 2009	Date and Hour of Discovery SAME
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? BRAD JONES	
By Whom? DARRELL MOORE	Date and Hour 10:00 AM APRIL 21, 2009	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
While cutting a manway into Tk 409, a small fire started inside the tank on the wall. Fire watchers outside the tank tried to spray the fire with water but it ran up the wall of the tank and ignited volatiles that had accumulated in the roof of the tank. Navajo's fire team responded and extinguished the fire within minutes. As a result of this fire, Navajo will no longer use cutting torches to cut manways into tanks. Future manways will be water cut.

Describe Area Affected and Cleanup Action Taken.*
Area affected is Tk 409 in the South Plant. We are performing structural integrity tests on the tank but preliminary results suggest the tank is a total loss. There were no injuries associated with this event. Highway 82 was closed by the Artesia Police Dept. for about 30 minutes.

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: Darrell Moore	OIL CONSERVATION DIVISION	
Printed Name: Darrell Moore	Approved by District Supervisor:	
Title: Environmental Manager for Water and Waste	Approval Date:	Expiration Date:
E-mail Address: Darrell.moore@hollycorp.com	Conditions of Approval:	Attached ☐
Date: April 22, 2009 Phone: 575-746-5281		

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☐ Final Report

Name of Company Navajo Refining Co	Contact Darrell Moore
Address 501 E Main Artesia NM 88211	Telephone No. 575-746-5281
Facility Name Artesia Plant	Facility Type Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release Fire	Volume of Release NA	Volume Recovered NA
Source of Release AGO Pump	Date and Hour of Occurrence 5/21/09 5:30 am	Date and Hour of Discovery 5/21/09 5:30 am
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☐ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
AGO Pump in the South Crude Unit had a seal failure and the resulting loss of product ignited. There was a flash and then some scaffolding above the pump caught fire. It was immediately extinguished. The only damage was some minor charring of the scaffolding boards.

Describe Area Affected and Cleanup Action Taken.*

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: Darrell Moore	OIL CONSERVATION DIVISION	
Printed Name: Darrell Moore	Approved by District Supervisor:	
Title: Env Mgr for Water and Waste	Approval Date:	Expiration Date:
E-mail Address: Darrell.moore@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 5/21/09 Phone: 575-746-5281		

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Sánta 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: Navajo Refining Co. LLC	Contact: Aaron Strange
Address: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311
Facility Name: Artesia Plant	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release: Fire	Volume of Release: ~ 15 barrels	Volume Recovered: ~ 10 barrels
Source of Release: Heat Exchangers (X-515 and X-516) in FCC Unit #10	Date and Hour of Occurrence: 7/22/09 ~ 07:43	Date and Hour of Discovery: 7/22/09 ~ 07:46
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? OCD (Carl Chavez) and NMED (Hope Monzeglio)	
By Whom? Darrell Moore	Date and Hour: 7/22/09 ~ 07:59	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
On 7/22/09 at ~ 07:43 there was a minor fire in the FCC unit. Two heat exchangers (X-515 and X-516) started to leak Slurry Oil from the shell side of the exchangers. Several units were down due to an electrical problem causing equipment to cool down. The exchangers started to leak from around the gaskets as the metal cooled and contracted.

Describe Area Affected and Cleanup Action Taken.*
The fire occurred in the FCC unit from two heat exchangers (X-515 and X-516). One temperature indicator was damaged from the fire and some of the insulation on the exchangers was removed and replaced. The fire was put out immediately and damage was very minor. No one was injured from the fire.

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: Aaron Strange	OIL CONSERVATION DIVISION	
Printed Name: Aaron Strange	Approved by District Supervisor:	
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: aaron.strange@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 7/22/09 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

French Dr., Hobbs, NM 88240
II
. Grand Avenue, Artesia, NM 88210
III
io Brazos Road, Aztec, NM 87410
IV
. St. Francis Dr., Santa Fe, NM 87505

Energy Minerals and Natural Resources

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

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

ıe of Company: Navajo Refining Co. LLC	Contact: Aaron Strange
ress: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311
ility Name: Artesia Plant	Facility Type: Petroleum Refinery

face Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

t Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

e of Release: Fire	Volume of Release: NA	Volume Recovered: NA
ırce of Release: Feed Preheater Exchanger (X-9852) head in Unit #64 drogen Plant #2)	Date and Hour of Occurrence: 8/18/09 ~ 23:28	Date and Hour of Discovery: 8/18/09 ~ 23:30
s Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom? NA	
Whom? NA	Date and Hour: NA	
ıs a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

ı Watercourse was Impacted, Describe Fully.*
\

scribe Cause of Problem and Remedial Action Taken.*
ı 8/18/09 at ~ 23:28 there was a minor fire in Unit #64. The Feed Preheater Exchanger (X-9852) head started to leak feed gas from the shell side of the changer. The feed gas consists of hydrogen with some CO2, CO, methane and steam. Maintenance repaired the leak by replacing the gasket.

scribe Area Affected and Cleanup Action Taken.*
ıe fire occurred in Unit #64 from the Feed Preheater Exchanger (X-9852) head. The fire was extinguished using steam hoses and damage was very inor. Some of the insulation on the exchangers was removed and replaced. No one was injured from the fire.

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

ignature: Aaron Strange	OIL CONSERVATION DIVISION
rinted Name: Aaron Strange	Approved by District Supervisor:
itle: Sr. Environmental Technician	Approval Date: / Expiration Date:
-mail Address: aaron.strange@hollycorp.com	Conditions of Approval: / Attached ☐
Date: 8/20/09 Phone: 575-703-5057	

ıttach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Navajo Refining Co. LLC	Contact: Aaron Strange
Address: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311
Facility Name: Artesia Plant	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release: Fire	Volume of Release: NA	Volume Recovered: NA
Source of Release: Fuel gas braided hose going to the second burner on H-363 in CCR Unit #70 (Continuous Catalytic Reforming).	Date and Hour of Occurrence: 11/05/09 ~ 11:52	Date and Hour of Discovery: 11/05/09 ~ 11:52
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom? NA	
By Whom? NA	Date and Hour: NA	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
On 11/05/09 at ~ 11:52 there was a minor fire in Unit #70 on a braided fuel gas hose going to the second burner on H-363. The outside operator was in the process of lighting an adjacent burner when the braided hose ignited. The number 2 burner was shut off extinguishing the small flame. A WA was written and the braided hose was changed out. The WA# was 242270

Describe Area Affected and Cleanup Action Taken.*
On 11/05/09 at ~ 11:52 there was a minor fire in Unit #70 on a braided fuel gas hose going to the second burner on H-363. The outside operator was in the process of lighting an adjacent burner when the braided hose ignited. The number 2 burner was shut off extinguishing the small flame. A WA was written and the braided hose was changed out. The WA# was 242270. No one was injured from the fire.

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: Aaron Strange	OIL CONSERVATION DIVISION	
Printed Name: Aaron Strange	Approved by District Supervisor:	
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: aaron.strange@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 11/05/09 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Navajo Refining Co. LLC	Contact: Aaron Strange
Address: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311
Facility Name: Artesia Refinery	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release: Fire	Volume of Release: NA	Volume Recovered: NA
Source of Release: Pump seal on gas-oil pump near Tank 433.	Date and Hour of Occurrence: 12/20/09 ~ 09:00	Date and Hour of Discovery: 12/20/09 ~ 09:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mr. Randy Dade (OCD District Supervisor).	
By Whom? Doug Price	Date and Hour: 12/20/2009 at ~09:43 (left voice mail). Mr. Randy returned the call at ~09:50.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
On 12/20/2009 at ~ 09:00, the fire alarm was sounded for a fire near Tank 433. A pump seal on a gas-oil pump near tank 433 caught on fire. The fire was extinguished within a few minutes. No one was injured from the event. At this time no cause has been identified. An accident investigation is being conducted to determine the cause of the fire. A final report will be sent after the accident investigation has been completed. The pump has a concrete containment with a sewer, however nothing spilled out from the pump or got on the ground.

Describe Area Affected and Cleanup Action Taken.*
The area affected was a pump seal on a gas-oil pump near tank 433. The fire was extinguished within a few minutes. In addition to the pump seal, damages included a section of metal flexible electrical conduit. The conduit prevented any damage to the wiring. No one was injured from the fire. The pump has a concrete containment with a sewer, however nothing spilled out from the pump.

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: Aaron Strange	OIL CONSERVATION DIVISION	
Printed Name: Aaron Strange	Approved by District Supervisor:	
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: aaron.strange@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 12/21/2009 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Navajo Refining Co. LLC	Contact: Aaron Strange
Address: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311
Facility Name: Artesia Refinery	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release: Fire	Volume of Release: NA	Volume Recovered: NA
Source of Release: D-354 CCR (Unit 70) reactor #3 inlet flange.	Date and Hour of Occurrence: 12/22/09 ~ 20:45	Date and Hour of Discovery: 12/22/09 ~ 20:45
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mr. Randy Dade (OCD District Supervisor).	
By Whom? Doug Price	Date and Hour: 12/22/2009 at ~21:03 (left voice mail). Mr. Randy returned the call at ~21:20.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
On 12/22/2009 at ~ 20:45 there was a fire in the CCR (Unit # 70) on the reactor #3 inlet flange. A contractor was installing a clamp on the reactor flange and pumping it with sealant to stop a hydrogen leak when the fire occurred. The hydrogen temperature was ~900 °F so it auto ignited. The fire was extinguished within a few minutes using hand held fire extinguishers and steam. The contractor continued pumping the sealant into the flange clamp which stopped the leak. No one was injured from the event. There were no damages from the event. The fire occurred within a unit that has a concrete slab with sewers; however nothing spilled out or got onto the ground.

Describe Area Affected and Cleanup Action Taken.*
The area that was affected was in the CCR Unit #70 on the reactor #3 inlet flange. A contractor was installing a clamp on the reactor flange and pumping it with sealant to stop a hydrogen leak when the fire occurred. The hydrogen temperature was ~900 °F so it auto ignited. The fire was extinguished within a few minutes using hand held fire extinguishers and steam. The contractor continued pumping the sealant into the flange clamp which stopped the leak. No one was injured from the event. There were no damages from the event. The fire occurred within a unit that has a concrete slab with sewers; however nothing spilled out or got onto the ground.

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: Aaron Strange	OIL CONSERVATION DIVISION	
Printed Name: Aaron Strange	Approved by District Supervisor:	
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: aaron.strange@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 12/23/2009 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Navajo Refining Co. LLC	Contact: Aaron Strange
Address: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311
Facility Name: Artesia Refinery	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release: Hydrogen Fire	Volume of Release: NA	Volume Recovered: NA
Source of Release: CCR (Unit 70) blind flange.	Date and Hour of Occurrence: 12/31/09 ~ 09:30	Date and Hour of Discovery: 12/31/09 ~ 09:30
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left voicemail with OCD District Supervisor (575-748-1283 extension 104).	
By Whom? Doug Price	Date and Hour: 12/31/2009 at ~09:59	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
On 12/23/2009 at ~ 09:30 there was a hydrogen fire in the CCR (Unit # 70). Saulcon Construction was doing some piping replacement work on a hydrogen line from the Hydrogen Plant Number 2 (Unit 64) compressors to the Naphtha Hydrotreater (Unit 13). While they were grinding, a spark ignited a hydrogen leak from a blind flange that was not completely tight. The fire was extinguished quickly with a hand-held fire extinguisher. The bolts on the blind flange have been tightened so the hydrogen leak has been stopped. No one was injured from the event. There were no damages from the event. The fire occurred within a unit that has a concrete slab with sewers; however nothing spilled out or got onto the ground.

Describe Area Affected and Cleanup Action Taken.*
The area that was affected was in the CCR Unit #70 on a blind flange. Saulcon Construction was doing some piping replacement work on a hydrogen line from the Hydrogen Plant Number 2 (Unit 64) compressors to the Naphtha Hydrotreater (Unit 13). While they were grinding, a spark ignited a hydrogen leak from a blind flange that was not completely tight. The fire was extinguished quickly with a hand-held fire extinguisher. The bolts on the blind flange have been tightened so the hydrogen leak has been stopped. The leak was in the vicinity of 70FIC090 (which will become 13PIC090 after the work is completed).No one was injured from the event. There were no damages from the event. The fire occurred within a unit that has a concrete slab with sewers; however nothing spilled out or got onto the ground.

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: Aaron Strange	OIL CONSERVATION DIVISION	
Printed Name: Aaron Strange	Approved by District Supervisor:	
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: aaron.strange@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 12/31/2009 Phone: 575-703-5057		

* Attach Additional Sheets If Necessary